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DEPARTMENT OF COMMERCE AND LABOR
COAST AND GEODETIC SURVEY

O. H. TITTMANN, SUPERINTENDENT

RESULTS OF OBSERVATIONS MADE AT THE COAST AND
GEODETIC SURVEY MAGNETIC OBSERVATORY
AT VIEQUES, PORTO RICO
1905 AND 1906

BY

DANIEL L. HAZARD
Computer, Division of Terrestrial Magnetism



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RESULTS OF OBSERVATIONS MADE AT THE COAST AND GEODETIC SURVEY MAGNETIC OBSERVATORY AT VIEQUES, PORTO RICO, 1905 AND 1906.

INTRODUCTION.

Latitude: $18^{\circ} 08' .9$ N. Longitude $65^{\circ} 26' .4$ W. Elevation: 40 meters (130 feet).

In February, 1903, a magnetograph was installed in a room in Fort Isabel Segunda, on Vieques Island, Porto Rico, and observations were continued there until the spring of 1907. At that time a suitable building had been constructed for the observatory work, and the instrument was transferred to the new site, about five-eighths of a mile to the west of the old fort. The results of observations made up to the end of 1904 were published in 1909 under the title "Results of Observations made at the Coast and Geodetic Survey Magnetic Observatory at Vieques, Porto Rico, 1903-1904." A general description of the portion of the old fort occupied, the instruments and methods employed will be found in that publication.

The direct supervision of the magnetic work of the Coast and Geodetic Survey is assigned to an assistant to the Superintendent, designated "Inspector of Magnetic Work." This position was held by Dr. L. A. Bauer from 1899 to September 1, 1906. He was succeeded by Mr. R. L. Faris. The work of the Porto Rico Magnetic Observatory was carried on during 1905 and 1906 by the following magnetic observers: P. H. Dike from January to July, 1905; J. W. Green from August, 1905, to September, 1906; and W. B. Keeling from October to December, 1906.

INSTRUMENTS.

VARIATION INSTRUMENTS.

The magnetograph installed in February, 1903, and in operation until May, 1905, consisted of the declination and horizontal intensity variometers of an old Brooke magnetograph and an Eschenhagen recording apparatus arranged for running at either of two speeds. Early in 1905 an Eschenhagen magnetograph, No. 7, consisting of declination, horizontal intensity and vertical intensity variometers and recording apparatus was mounted in the same room and its record began in March. Its operation was not altogether satisfactory for the first few months, however, and the record of the Brooke *D* and *H* variometers has been adopted up to the end of May. On June 1 the Brooke magnetograph was removed and the Eschenhagen magnetograph remounted nearer the middle of the room. Much difficulty was experienced in keeping the variometers in satisfactory adjustment, largely on account of the high percentage of humidity, so that the record for several short periods had to be rejected and at other times was not altogether reliable.

The variometers were mounted east of the recording apparatus. Increasing ordinates (upward motion of the curves) correspond to increasing west declination, increasing *H*, and increasing *Z*.

The variations in temperature were obtained by a pen-recording thermograph up to the end of May, 1905. After that date, the thermograph inclosed in the *Z* variometer was used. The thick walls of the fort served to limit the diurnal range of temperature to about 1° C. on

the average as compared with about 6° C. outside. The seasonal variation was very small, as will be seen from the following table:

Monthly and annual range in temperature (Centigrade).

Month	1905		1906	
	Maximum	Minimum	Maximum	Minimum
	°	°	°	°
January.....	28.5	25.4	27.5	25.0
February....	28.1	25.8	28.5	25.4
March.....	29.1	25.8	28.4	25.2
April.....	29.7	25.9	29.4	25.8
May.....	29.3	26.5	29.7	26.5
June.....	29.5	26.4	29.7	25.7
July.....	30.4	27.0	29.9	26.5
August.....	30.5	27.3	31.2	27.8
September..	30.3	27.0	31.0	26.4
October....	29.6	25.8	30.4	27.1
November..	29.8	26.4	29.7	26.9
December...	28.3	25.7	27.6	24.6
Year..	30.5	25.4	31.2	24.6

ABSOLUTE INSTRUMENTS.

India magnetic survey pattern magnetometer No. 31 continued to be used for absolute observations of declination and horizontal intensity throughout the two years. Kew dip circle No. 18 was used during January and February, 1905, and was then replaced by a Schulze earth inductor No. 1.

SEISMOGRAPH.

The Bosch-Omori seismograph, which was installed in September, 1903, continued in operation. The recorded seismic disturbances will be found tabulated on pages 92-96.

ACCESSORIES.

Chronometers and meteorological instruments. Time observations were made with magnetometer No. 31, which is provided with a vertical circle.

INSTRUMENTAL CONSTANTS OF THE MAGNETOGRAPH.

DECLINATION.

Scale value of the Brooke declinometer: 1 mm. = 0'.4.

The Eschenhagen magnetograph was remounted on June 1, 1905. On June 20 the declinometer was accidentally displaced, causing a slight change in the distance from the recording apparatus. There was apparently a gradual increase in the torsion coefficient of the suspension fiber. The average effect of 18° of torsion was 42'.8 up to the end of May, 1905, 43'.2 in June, and 45'.3 for the remainder of the two years. The distance between the face of the *D* mirror and the cylinder of the recording apparatus was measured three times in 1905, as follows: March 8, 1763 mm.; June 9, 1778 mm.; July 6, 1782 mm. The adopted values of 1 mm. on the magnetogram are: Up to June 1, 1905, 1'.015; after June 1, 1'.007.

HORIZONTAL INTENSITY.

Scale value.—The same scale value was used for the Brooke horizontal intensity variometer as for 1903 and 1904, namely: 1 mm. = 2.25 γ .

Deflection observations for the determination of the scale value of the Eschenhagen variometer were made once a month or oftener. The results show considerable variation even

during periods when there had been no change of adjustment, but there is little evidence of a relation between change of scale value and change in ordinate. At times the motion of the magnet during deflection observations was probably partially obstructed, although apparently free within the limits of the ordinary daily range.

H scale value, Eschenhagen magnetograph.

Date	Observed	Adopted	Date	Observed	Adopted
1905.	γ	γ	1906.	γ	γ
June 9	2.37	2.37	Apr. 16	2.51	2.57
July 10	2.29	2.29	May 12	2.58	2.57
21	2.58	2.58	14	2.58	2.57
Aug. 21	2.18	2.18	June 8	2.21(?)	2.57
Sept. 11	3.54(?)	1.75	15	2.62	2.57
Oct. 13	1.77	1.75	July 16	2.40	2.44
16	1.79	1.75	Aug. 17	2.37	2.37
Nov. 13	1.68	1.75	Sept. 14	2.32	2.32
Dec. 15	1.80	1.75	Oct. 19	2.52(?)	2.30
1906.			Nov. 30	2.27	2.27
Jan. 15	1.67	1.75	Dec. 22	4.29(?)	2.27
Feb. 16	1.75	1.75	26	5.17(?)	2.27
Mar. 16	1.71	1.75	27	5.69(?)	2.27

Temperature coefficient.—The same temperature coefficient was used for the Brooke variometer as in 1903 and 1904, namely: $q=0.00071$ (20.8γ) for 1°C .

The temperature coefficient of the Eschenhagen H variometer was determined from the daily mean ordinates by selecting periods free from large disturbances during which there was both a rise and fall of temperature. Owing to the numerous readjustments required by the variometer, only 7 suitable periods were found, giving the following results:

Date	Temperature		q
	Mean	Range	
1905.	$^\circ$	$^\circ$	γ
April.....	27.8	0.99	5.7
August.....	28.4	1.12	11.8
October.....	27.5	0.86	4.5
November..	28.2	0.98	7.9
December..	26.7	0.38	8.2
1906.			
May.....	28.2	1.14	8.6
September..	29.0	2.16	6.0
Mean.....	.....	.....	7.5

That is, an increase in temperature of 1°C corresponds to a decrease in ordinate of 7.5γ . For $H=29200\gamma$, this corresponds to $q=0.00026$.

VERTICAL INTENSITY.

Scale value.—Deflection observations were made once a month or oftener. In spite of the difficulty of making the observations without displacing the balanced magnet to some extent, fairly consistent results were obtained.

At times there was apparently a gradual decrease in sensitiveness, due to deterioration of the bearing points of the balance owing to the excessive moisture.

Z scale value.

Date	Observed	Adopted	Date	Observed	Adopted
1905.	γ	γ	1906.	γ	γ
Mar. 27	3.72	3.72	Jan. 15	7.81	7.90
Apr. 17	6.30	6.92	Feb. 16	8.76	7.90
28	7.54	6.92	Mar. 16	7.66	7.90
May 24	5.28	5.28	Apr. 16	4.32	4.32
June 9	7.88	7.88	May 12	4.06	4.32
27	5.59	5.59	12	4.78	5.00
July 10	4.69	4.65	14	5.02	5.00
21	4.62	4.65	June 15	5.02	5.00
Aug. 21	3.87	3.84	July 16	4.97	5.00
Sept. 15	3.80	3.84	Aug. 17	4.83	5.00
Oct. 16	6.32	?	Sept. 14	4.92	5.00
23	4.59	4.59	Oct. 19	5.10	5.00
Nov. 13	5.90	5.90	Nov. 22	5.14	5.14
Dec. 15	7.38	7.38	Dec. 18	5.12	5.14

Temperature coefficient.—The temperature coefficient of the *Z* variometer was determined from the daily mean ordinates in the same manner as for the *H* variometer.

Date	Temperature		q	Date	Temperature		q
	Mean	Range			Mean	Range	
1905.	°	°	γ	1906.	°	°	γ
March.....	27.3	0.72	17.0	May.....	27.8	1.08	3.7
April.....	27.7	1.19	20.0	June.....	27.5	1.80	2.1
May.....	27.3	0.53	30.8	September.....	28.2	1.00	3.4
June.....	27.7	0.67	2.5	Do.....	28.8	2.08	4.9
July.....	28.2	0.69	8.7	1907.			
August.....	28.7	1.00	8.0	February.....	26.8	0.40	1.2
Do.....	28.4	1.20	3.3	March.....	27.1	0.48	4.4
August-September.....	29.0	0.61	5.7				
September.....	29.1	0.60	6.2				
December.....	26.8	0.56	0.4				

There was evidently a change in the temperature coefficient when the instrument was remounted and readjusted on June 1, 1905. The adopted values are: $q=0.00059$ (20γ) up to that date and $q=0.00013$ (4.3γ) for the remainder of the two years. In each case an increase in temperature corresponds to a decrease in ordinate.

ABSOLUTE OBSERVATIONS AND BASE-LINE VALUES.

DECLINATION.

Absolute observations of declination were made twice a week, each day's observations consisting of one set in the morning and one set in the afternoon. The results have been increased by $12'.4$ to reduce them to the site of new observatory, built in 1907. The record of the Brooke variometer has been adopted up to the end of May, 1905. Its adjustment was not changed during the five months, but the base-line values show a gradual decrease, amounting to $2'.1$ for the interval.

There were periods when the Eschenhagen variometer was not in good working order, and it has been deemed best to reject the record for July 31 and part of August 1, September 27 to October 13, November 7 to 24, November 30 to December 5, 1905, and from October 1 to 8, 1906. At other times, also, the magnet, although showing nearly the normal diurnal variation, was apparently somewhat constrained in its motion, and the curves show occasional abrupt displacements of a millimeter or less. The observed base-line values and the daily mean ordinates indicate that some of these are permanent displacements, and they have been taken

into account in adjusting the base-line values. Abrupt changes of base-line values occurred at the following times. At others a slight gradual change is indicated:

Date	Hour	Amount	Cause
1905.			
June 3	16-17	-10.0	Adjusted.
June 20	16-17	+ 2.4	Do.
July 6	16-17	-10.6	Disturbed while measuring R.
Aug. 21	22-23	+ 1.1	Disturbed during deflections.
Sept. 11	20-21	+ 4.4	Do.
Oct. 26	16-17	- 9.0	Cleaned and adjusted.
Oct. 31	16-17	+ 9.4	Adjusted.
Dec. 15	15-16	- 1.0	(?)
1906.			
Jan. 25	14-15	- 1.0	(?)
Feb. 5	11-12	+ 1.1	(?)
Mar. 11	8-9	+ 0.7	(?)
June 9	16-17	+ 0.7	(?)
July 16	11-12	- 0.9	Disturbed during deflections.
Sept. 1	16-17	+16.0	Adjusted.
Oct. 23	9-18	- 1.0	Do.
Oct. 31	16-17	- 8.1	Do.
Nov. 22	16-17	+ 0.9	Torsion observations.
Dec. 17	15-17	+ 1.6	Magnet cleaned.

Declination base-line values.

Date	Observed	Adopted	Date	Observed	Adopted	Date	Observed	Adopted
1905.	° /	° /	1905.	° /	° /	1906.	° /	° /
Jan. 2	1 09.7	1 09.8	Aug. 28	0 58.6	0 58.7	May 14	1 06.6	1 06.0
6	09.4	09.7	Sept. 1	58.6	58.7	18	05.8	06.0
9	09.6	09.6	4	58.8	58.7	21	05.4	05.9
13	09.4	09.4	8	58.8	58.7	25	05.9	05.8
16	09.2	09.3	11	58.7	58.7	28	06.2	05.8
20	09.6	09.2	15	1 03.2	1 03.2	June 1	05.4	05.7
23	09.2	09.1	18	03.0	03.3	4	05.6	05.6
27	09.0	09.0	22	03.4	03.4	8	05.5	05.5
30	09.2	08.9	25	03.6	03.6	11	06.1	06.2
Feb. 3	09.0	08.9	29	03.7	03.7	15	06.3	06.2
6	08.7	08.8	Oct. 16	04.5	04.3	18	06.1	06.3
10	08.8	08.8	20	04.0	04.3	22	06.2	06.4
13	09.0	08.8	23	1 04.5	1 04.3	25	06.1	06.4
17	08.9	08.7	27	0 55.1	0 55.4	29	06.3	06.5
20	08.7	08.7	30	55.7	55.4	July 2	06.5	06.6
24	08.6	08.7	Nov. 3	1 04.7	1 04.8	6	06.9	06.6
27	08.6	08.6	6	05.1	04.8	9	06.8	06.7
Mar. 3	08.6	08.6	27	03.7	04.0	13	06.7	06.8
6	08.5	08.6	Dec. 1	04.2	04.0	16	05.9	05.9
10	08.6	08.5	8	05.6	05.8	20	05.9	06.0
13	08.6	08.5	11	05.9	05.9	23	05.9	06.0
17	08.5	08.4	15	06.0	06.0	27	06.3	06.1
20	08.5	08.4	18	05.0	05.0	30	06.1	06.2
24	08.1	08.4	22	05.2	05.1	Aug. 3	06.3	06.3
27	07.9	08.3	26	05.5	05.2	6	06.3	06.4
31	08.2	08.3	29	05.3	05.2	10	06.8	06.4
Apr. 3	08.2	08.3				13	06.6	06.5
7	08.3	08.2	1906.			17	05.8	06.6
10	08.0	08.2	Jan. 2	05.2	05.3	20	06.4	06.6
14	08.0	08.2	5	05.9	05.3	24	06.6	06.7
22	07.9	08.1	8	05.3	05.4	27	07.0	06.7
24	08.0	08.1	12	05.5	05.5	31	06.6	06.8
28	08.1	08.0	15	05.3	05.5	Sept. 3	22.5	22.8
May 1, 2	07.8	08.0	19	05.8	05.6	7	22.7	23.0
5	08.0	08.0	22	05.9	05.7	10	22.5	23.1
8	08.5	07.9	26	04.6	04.7	14	23.0	23.2
12	07.9	07.9	29	04.7	04.7	18	24.0	23.3
15	07.9	07.9	Feb. 2	04.4	04.7	21	22.8	23.4
19	08.0	07.8	5	05.1	04.7	24	23.8	23.5
22	07.7	07.8	9	05.8	06.0	28	23.7	23.7
26	07.9	07.8	12	05.7	06.1	Oct. 8	21.8	21.8
29	07.6	07.7	16	06.3	06.2	12	22.0	21.9
June 2	15.1	14.6	19	06.5	06.4	16	22.0	22.0
5	04.7	04.6	23	06.3	06.5	19	22.0	22.1
9	04.0	04.6	26	06.7	06.6	22	22.2	22.2
12	04.7	04.6	Mar. 2	06.8	06.8	26	21.3	21.3
16	04.3	04.6	5	06.7	06.9	29	21.4	21.4
19	04.5	04.6	9	06.9	07.1	Nov. 2	13.7	13.3
23	07.2	07.0	12	07.6	07.8	5	13.4	13.4
26	06.9	07.0	16	07.6	07.6	9	13.2	13.5
30	06.8	07.0	19	08.0	07.5	12	13.6	13.6
July 3	06.9	07.0	23	07.4	07.4	16	14.2	13.8
7	0 56.5	0 56.4	26	07.0	07.2	19	13.9	13.9
10	56.0	56.4	30	07.2	07.1	23	15.1	14.8
14	55.9	56.4	Apr. 2	06.7	07.0	26	14.9	14.8
17	56.6	56.4	6	06.7	06.8	Dec. 3	14.8	14.8
21	56.6	56.4	9	06.7	06.8	7	14.8	14.8
24	56.1	56.4	13	06.7	06.7	10	14.4	14.8
31	56.8	56.4	16	06.7	06.6	14	14.7	14.8
Aug. 4	56.1	56.3	20	06.4	06.5	17	14.7	14.8
7	56.2	56.5	23	06.7	06.5	21	16.3	16.4
11	57.0	56.8	27	06.4	06.4	24	16.6	16.4
14	56.9	57.1	30	06.6	06.3	28	16.2	16.4
18	57.2	57.4	May 4	06.4	06.2	31	16.5	16.4
21	57.6	57.6	7	06.5	06.2			
25	58.7	58.7	11	06.1	06.1			

HORIZONTAL INTENSITY.

Absolute observations of horizontal intensity were made regularly twice a week in the small absolute observatory on a hill near the fort, a single determination, consisting of one set of deflections between two sets of oscillations. The results have been increased by 263γ , of which 28γ represents the difference between Magnetometer No. 31 and the Cheltenham standard, and 235γ is the amount required to refer the results to the site of the new observatory occupied in 1907.

The Brooke variometer was not readjusted in the five months of 1905 during which it was in operation, and its record has been used for that period in preference to that of the Eschenhagen variometer. The base-line values show a gradual decrease throughout.

Owing to the steady "drift" of the Eschenhagen *H* variometer, sometimes amounting to as much as 8γ per day, frequent readjustments were necessary. These were made by changing the torsion of the suspension fiber up to March 26, 1906. On that day the position of the control magnets was changed, and the drift thereafter was less rapid. The instrument was not working properly from September 27 to October 11, on October 26 and 27, 1905, and from October 20 to November 1, 1906, and the record for those periods has not been used. On account of the frequent adjustments, it has been necessary to depend largely upon the daily mean ordinates in determining the rate of "drift," or gradual change of base-line value. Abrupt changes of base-line values, due to adjustments or other causes, occurred at the following times:

Date	Hour	Amount	Date	Hour	Amount	Date	Hour	Amount
1905.		γ	1906.		γ	1906.		γ
June 9	21-22	- 10	Jan. 29	16-17	- 13	June 5	16-17	- 18
15	16-17	-116	31	16-17	- 23	8	9-10	- 10
18	16-17	+ 14	Feb. 9	16-17	- 21	14	16-17	- 9
20	16-18	- 30	15	16-17	- 38	27	16-17	- 8
July 12	16-17	-127	16	11-12	- 47	July 7	3- 4	- 6
21	19-20	- 10	16	16-17	- 24	7	16-17	- 10
Aug. 1	16-18	- 69	Mar. 10	16-17	- 23	16	10-11	- 20
21	20-22	+ 72	13	16-17	- 14	21	16-17	- 7
22	16-17	-145	14	16-17	- 28	Aug. 9	16-17	- 9
31	16-17	- 52	26	10-11	-133	10	16-17	- 7
Sept. 13	16-17	- 43	Apr. 4	16-17	- 24	13	16-17	- 12
19	16-17	- 32	11	16-17	- 77	14	16-17	- 7
Oct. 11	16-17	.....	21	16-17	- 28	18	16-17	- 11
23	16-17	- 26	22	16-17	- 15	19	16-17	- 12
31	16-17	- 28	23	16-17	- 36	25	16-17	- 12
Nov. 12	16-17	- 45	28	16-17	- 18	31	16-17	- 69
13	11-12	- 38	May 1	16-17	- 24	Sept. 1	16-17	+ 10
Dec. 6	16-17	- 42	7	16-17	- 26	11	16-17	- 9
13	16-17	- 49	11	16-17	- 31	14	16-17	- 12
29	16-17	- 44	15	16-17	- 83	Nov. 1	16-17	.....
1906.			16	16-17	+ 30	21	16-18	-115
Jan. 8	16-17	- 17	28	16-17	- 20	30	14-15	- 20
13	16-17	- 22	June 3	16-17	- 10	Dec. 2	8- 9	+ 7
15	13-14	- 20	4	16-17	- 5	28	17-18	+ 29
28	16-17	- 20						

Horizontal intensity base-line values.

Date	Observed	Adopted	Date	Observed	Adopted	Date	Observed	Adopted
1905.	<i>r</i>	<i>r</i>	1905	<i>r</i>	<i>r</i>	1906	<i>r</i>	<i>r</i>
Jan. 2	28985	28985	Aug. 28	29154	29151	Apr. 30	29096	29095
6	975	982	Sept. 1	110	111	May 4	095	095
9	981	980	4	120	119	7	111	113
13	975	977	8	123	128	11	114	111
16	973	975	11	139	134	14	090	098
20	981	972	15	100	103	18	073	066
24	966	969	18	120	117	21	079	077
27	970	967	22	097	104	25	083	091
30	964	965	25	123	118	28	111	101
Feb. 3	946	962	Oct. 13	098	097	June 1	100	095
6	954	960	16	103	106	4	088	096
10	960	957	20	122	122	8	070	078
13	957	955	23	135	134	11	098	089
17	955	954	30	112	116	15	092	094
20	947	954	Nov. 3	113	104	18	105	097
24	964	953	6	115	116	22	091	101
27	952	953	10	123	131	25	102	104
Mar. 3	944	952	13	099	098	29	097	100
6	955	952	17	080	075	July 2	092	103
10	943	951	20	081	081	6	113	107
13	942	951	27	098	096	9	111	094
17	954	950	Dec. 1	120	116	13	096	098
20	950	950	4	121	131	16	101	101
24	947	949	8	109	109	20	083	085
27	954	949	11	125	124	23	075	081
31	952	948	15	099	095	27	098	085
Apr. 3	929	947	18	107	109	30	087	088
7	946	947	22	127	124	Aug. 3	084	092
10	948	946	26	139	139	6	087	095
14	960	946	29	149	150	10	092	092
17	949	945				13	098	093
22	945	945	1906.			17	083	085
24	946	944	Jan. 2	29120	29121	20	066	070
28	943	944	5	132	132	24	091	081
May 2	944	943	8	144	142	27	074	078
5	941	943	12	140	141	31	088	088
8	946	941	15	140	131	Sept. 3	056	051
12	954	939	19	135	127	7	067	067
15	936	937	22	141	139	10	077	078
19	932	935	26	163	155	14	082	084
22	934	933	29	146	147	21	102	098
26	930	931	Feb. 2	128	127	24	108	110
29	28926	28929	5	135	139	28	126	124
June 2	29114	29113	9	150	155	Oct. 1	133	134
5	131	136	12	134	146	5	153	146
9	167	164	16	132	126	8	149	155
12	178	173	19	058	065	12	167	167
16	076	080	23	082	081	16	177	176
19	114	109	26	092	093	19	190	188
23	091	095	Mar. 2	101	109	Nov. 2	063	061
26	104	107	5	124	121	9	063	061
July 3	142	141	9	138	137	12	071	061
7	161	165	12	117	126	16	048	061
10	186	183	16	099	098	19	29061	29061
14	090	084	19	098	105	23	28952	28951
17	105	105	23	140	137	26	962	961
21	137	133	26	195	197	Dec. 3	28981	28981
24	137	141	30	092	091	7	29005	29005
31	191	179	Apr. 2	116	111	10	036	030
Aug. 4	124	130	6	109	113	14	036	035
7	146	144	9	138	133	17	039	036
11	161	162	13	080	082	21	034	036
14	173	174	16	098	102	24	036	038
18	191	190	20	127	128	28	051	042
21	199	201	23	102	105	31	071	071
25	146	142	27	099	095			

VERTICAL INTENSITY.

Dip observations were made twice a week with Schulze earth inductor No. 1, beginning with February 17, 1905. The results have been diminished by 24'.7, of which 1'.0 is the amount required to reduce to the standard earth-inductor at Cheltenham and 23'.7 is the difference between the dip at the absolute observatory on the hill near the fort and at the new site occupied in 1907.

The vertical intensity variometer was lacking in stability, and required only a slight jar to change the position of the magnet, the manipulation of the deflection bar during scale-value determinations often being sufficient to do this. The extreme moisture had a bad effect on the bearing points, so that there was tendency to gradual loss of sensitiveness, requiring occasional cleaning or renewal of the points. A satisfactory adjustment of the instrument was not secured until March 10 and it was out of adjustment from June 11 to July 5, and from September 20 to October 23, 1905. During parts of 1905 there was a rapid "drift," necessitating numerous readjustments. Abrupt changes of base-line value occurred as follows:

Date	Hour	Amount	Date	Hour	Amount	Date	Hour	Amount
1905.		<i>r</i>	1905.		<i>r</i>	1906.		<i>r</i>
Mar. 15	16-17	+ 53	Oct. 27	8- 9	- 16	Apr. 2	11-12	+242
27	21-22	-125	Nov. 10	16-17	+ 91	6	16-17	+ 15
28	16-17	+ 14	18	16-17	+117	9	16-17	+ 9
Apr. 17	20-22	+150	19	16-17	-124	16	14-15	+ 21
28	20-22	+146	29	16-17	+ 13	May 12	10-11	- 40
May 15	16-18	+215	Dec. 9	16-17	+ 10	14	13-14	+ 25
16	16-17	+174	10	16-17	+ 10	22	16-17	+ 35
24	11-12	- 34	15	14-15	- 15	June 5	16-17	+ 14
June 1	16-17	?	16	9-10	+ 30	12	16-17	+ 9
9	16-17	- 39				July 3	16-17	+ 8
9	19-20	- 51	1906.			9	16-17	+ 20
July 10	20-21	+ 24	Jan. 6	16-17	+ 22	Aug. 1	16-17	+ 44
21	21-22	+ 34	21	16-17	+ 40	17	10-11	+ 10
26	9-10	+ 23	Feb. 10	16-17	+ 14	18	16-17	+ 15
26	16-17	+ 15	16	14-15	- 12	Oct. 19	15-16	- 25
Aug. 18	21-23	+103	Mar. 11	16-17	+ 12	27	15-17	+260
Sept. 15	18-20	+ 20	16	15-16	+ 20			

Vertical intensity base-line values.

Date	Observed	Adopted	Date	Observed	Adopted	Date	Observed	Adopted
1905.	<i>r</i>	<i>r</i>	1905.	<i>r</i>	<i>r</i>	1905.	<i>r</i>	<i>r</i>
Mar. 14	33593	33593	July 7	33778	33783	Nov. 10	33567	33567
17	631	629	10	776	773	13	642	649
20	616	616	14	778	783	17	642	637
27	567	579	17	779	773	20	602	608
31	447	454	21	754	759	27	559	556
Apr. 3	450	444	24	786	783	Dec. 1	568	562
7	427	425	31	778	782	4	550	550
10	391	407	Aug. 4	761	758	8	518	524
14	382	382	7	736	740	11	543	549
17	354	361	11	717	716	15	530	528
22	476	481	14	697	698	18	532	534
24	473	471	18	675	674	22	535	523
28	453	452	21	805	798	26	497	511
May 1	517	523	25	786	787	29	507	502
8	388	382	28	769	775			
12	302	304	Sept. 1	763	759	1906.		
15	264	254	4	755	747	Jan. 2	500	490
19	583	590	8	731	731	5	476	481
22	566	568	11	709	719	8	501	500
26	527	525	15	708	703	12	498	500
29	504	505	18	723	726	15	505	500
June 2	768	758	Oct. 30	662	661	19	498	500
5	734	740	Nov. 3	626	627	22	537	539
9	720	720	6	601	602	26	534	534

Vertical intensity base-line values—Continued.

Date	Observed	Adopted	Date	Observed	Adopted	Date	Observed	Adopted
1906.	<i>r</i>	<i>r</i>	1906.	<i>r</i>	<i>r</i>	1906.	<i>r</i>	<i>r</i>
Jan. 29	33525	33528	May 25	33700	33701	Sept. 14	33640	33640
Feb. 2	516	519	28	687	692	18	631	633
9	490	495	June 1	687	682	21	630	628
12	517	511	4	706	677	24	624	623
16	493	499	8	684	687	28	623	616
19	486	486	11	665	684	Oct. 1	615	611
23	488	488	15	683	689	5	603	607
26	493	491	18	683	687	8	595	604
Mar. 2	499	493	22	689	685	12	583	600
5	491	488	25	680	683	16	596	596
9	470	477	29	686	681	19	574	593
12	483	482	July 2	665	680	22	577	565
16	472	471	6	698	681	26	554	561
19	505	502	9	669	675	29	818	820
23	497	499	13	676	688	Nov. 2	826	820
26	515	493	16	693	683	5	818	818
30	487	485	20	675	676	9	824	816
Apr. 2	725	722	23	677	671	12	809	815
6	735	722	27	648	664	16	825	813
9	722	730	30	663	659	19	823	811
13	731	731	Aug. 3	709	696	23	801	808
16	726	725	6	693	691	26	805	806
20	743	745	10	697	683	Dec. 3	804	802
23	750	743	13	679	677	7	797	799
27	744	741	17	671	675	10	798	797
30	731	738	20	692	683	14	799	794
May 4	719	730	24	669	676	17	793	792
7	708	725	27	667	671	21	786	790
11	737	723	31	651	664	24	800	788
14	705	706	Sept. 3	675	659	28	775	785
18	701	690	7	693	652	31	783	783
21	689	678	10	650	647			

DIURNAL VARIATION.

The following tables present the diurnal variation of D , H , Z , I , X , and Y for each month, based on the hourly means for the ten least disturbed days. The hours are local mean time counted from midnight. For D , H , and Z the tabular quantities were obtained directly from the bottom line of the monthly tabulations of hourly values. The variations in I , X , and Y were computed from the variations in D , H , and Z with the aid of the formulæ:

$$\begin{aligned}\Delta X &= 1.00 \Delta H + 0.243 \Delta D \\ \Delta Y &= -0.0285 \Delta H + 8.51 \Delta D \\ \Delta I &= 0.050 \Delta Z - 0.058 \Delta H\end{aligned}$$

A plus sign indicates an hourly value greater than the mean for the day. As D and Y are considered positive when east, they are negative at the Porto Rico observatory. Consequently, in the tables showing the diurnal variation of D and Y a plus sign indicates an hourly value numerically less but algebraically greater than the mean for the day.

Diurnal variation of declination.

1905.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	/	/	/	/	/	/	/	/	/	/	/	/
2	-0.1	-0.3	-0.2	+0.1	-0.1	-0.2	-0.3	-0.4	-0.1	-0.4	-0.2	-0.3
3	-0.2	-0.3	-0.2	+0.1	0.0	-0.2	-0.2	-0.2	0.0	-0.3	-0.1	-0.4
4	-0.3	-0.2	-0.1	+0.1	+0.2	-0.1	-0.2	0.0	+0.3	-0.2	-0.1	-0.3
5	-0.3	-0.2	0.0	+0.3	+0.4	+0.1	0.0	+0.3	+0.7	-0.2	+0.1	-0.3
6	-0.2	-0.1	+0.2	+0.5	+0.8	+0.4	+0.5	+0.8	+1.0	0.0	+0.4	-0.2
7	-0.3	-0.1	+0.2	+0.9	+1.7	+1.8	+1.6	+2.1	+2.5	+0.4	+0.4	0.0
8	-0.4	-0.2	+0.8	+2.2	+3.2	+3.1	+3.3	+4.3	+4.4	+1.6	+0.8	-0.1
9	+0.5	+0.7	+2.4	+2.9	+3.5	+3.7	+3.4	+4.2	+4.2	+2.7	+1.8	+1.1
10	+2.2	+2.0	+3.2	+2.8	+2.7	+2.6	+2.4	+2.8	+2.8	+2.9	+2.3	+2.2
11	+3.1	+3.3	+3.0	+2.3	+0.9	+1.3	+1.2	+1.0	+0.9	+2.4	+2.3	+2.6
12	+2.8	+3.0	+1.7	+1.0	-0.3	+0.2	0.0	-0.5	-1.2	+1.1	+1.3	+2.1
13	+1.1	+1.5	+0.1	-0.8	-1.5	-1.0	-1.1	-1.3	-2.6	0.0	+0.2	+0.9
14	-0.6	+0.1	-1.4	-2.4	-2.6	-1.4	-1.8	-1.9	-2.9	-0.4	-0.5	-0.6
15	-1.7	-0.7	-2.5	-3.4	-3.0	-1.6	-2.3	-2.4	-2.5	-0.9	-1.1	-1.7
16	-2.2	-1.2	-2.5	-3.4	-2.6	-1.6	-2.4	-2.4	-2.0	-1.4	-1.5	-2.0
17	-2.2	-1.5	-1.7	-2.2	-1.4	-1.4	-1.7	-1.5	-1.2	-1.5	-1.6	-1.6
18	-1.4	-1.5	-1.0	-1.0	-0.3	-1.2	-0.9	-0.9	-0.7	-1.5	-1.5	-1.0
19	-0.4	-1.0	-0.6	-0.5	0.0	-0.9	-0.5	-0.7	-0.8	-1.1	-1.2	-0.4
20	-0.2	-0.8	-0.5	-0.3	-0.1	-0.9	-0.6	-0.7	-0.6	-0.9	-0.9	-0.3
21	0.0	-0.4	-0.3	-0.1	-0.2	-0.9	-0.6	-0.7	-0.6	-0.6	-0.5	0.0
22	+0.1	-0.2	-0.1	-0.1	-0.2	-0.7	-0.5	-0.5	-0.6	-0.5	-0.2	+0.1
23	+0.2	-0.1	-0.1	+0.1	-0.1	-0.5	-0.5	-0.5	-0.5	-0.5	-0.1	+0.1
24	+0.1	-0.2	-0.2	0.0	0.0	-0.5	-0.3	-0.4	-0.4	-0.5	-0.1	+0.1
25	0.0	-0.3	-0.3	+0.1	0.0	-0.4	-0.2	-0.3	-0.2	-0.4	-0.1	-0.1

1906.

1	-0.2	-0.4	-0.2	-0.1	-0.2	-0.2	-0.2	-0.1	-0.2	-0.2	-0.2	-0.2
2	-0.3	-0.5	-0.2	0.0	0.0	-0.1	-0.1	0.0	-0.1	-0.3	-0.3	-0.3
3	-0.4	-0.6	-0.3	0.0	+0.1	0.0	0.0	0.0	+0.1	-0.2	-0.2	-0.3
4	-0.3	-0.5	-0.2	+0.1	+0.2	+0.3	+0.4	+0.4	+0.4	0.0	-0.1	-0.1
5	-0.2	-0.3	-0.1	+0.2	+0.4	+0.5	+0.7	+0.8	+0.8	+0.2	0.0	0.0
6	+0.1	-0.3	+0.3	+0.7	+1.5	+1.6	+2.0	+1.9	+1.7	+0.4	0.0	+0.1
7	+0.4	-0.6	+1.0	+1.9	+3.1	+3.1	+3.7	+3.8	+3.3	+1.4	+0.1	0.0
8	+1.8	+0.5	+2.2	+2.2	+3.2	+3.6	+3.9	+3.6	+3.4	+2.0	+1.1	+0.9
9	+3.8	+2.0	+2.5	+2.1	+2.2	+2.5	+2.7	+2.1	+2.2	+1.9	+2.0	+2.0
10	+4.3	+3.4	+2.2	+1.9	+0.6	+1.3	+1.2	+0.4	+0.8	+0.9	+1.9	+2.6
11	+3.1	+3.5	+1.4	+1.2	-0.6	-0.1	-0.5	-0.8	-0.7	-0.1	+1.0	+2.2
12	+0.2	+1.9	+0.3	0.0	-1.2	-1.0	-1.4	-1.5	-1.8	-0.7	-0.4	+0.4
13	-2.0	+0.3	-1.0	-1.3	-1.6	-1.5	-2.0	-2.2	-2.3	-0.8	-1.1	-1.3
14	-2.8	-0.9	-1.8	-2.0	-1.8	-1.9	-2.1	-2.5	-2.2	-1.0	-1.5	-2.0
15	-2.5	-1.5	-1.7	-2.1	-1.6	-1.8	-1.9	-2.3	-1.8	-0.9	-1.3	-2.3
16	-1.7	-1.5	-1.4	-1.4	-1.0	-1.4	-1.6	-1.4	-1.0	-0.9	-0.9	-1.5
17	-1.2	-1.4	-1.1	-0.6	-0.6	-1.0	-0.9	-0.5	-0.6	-0.8	-0.4	-0.5
18	-0.8	-1.0	-0.7	-0.4	-0.6	-0.8	-0.7	-0.2	-0.4	-0.5	-0.2	-0.1
19	-0.6	-0.7	-0.5	-0.5	-0.5	-0.6	-0.8	-0.3	-0.3	-0.2	0.0	0.0
20	-0.3	-0.5	-0.3	-0.5	-0.5	-0.6	-0.7	-0.3	-0.4	0.0	+0.2	+0.2
21	-0.1	-0.3	-0.2	-0.5	-0.4	-0.6	-0.5	-0.3	-0.3	+0.1	+0.2	+0.2
22	-0.1	-0.1	-0.1	-0.3	-0.4	-0.6	-0.5	-0.2	-0.2	+0.1	+0.1	+0.1
23	-0.2	-0.2	0.0	-0.3	-0.3	-0.4	-0.4	-0.2	-0.2	-0.1	0.0	0.0
24	-0.2	-0.4	-0.1	-0.2	-0.2	-0.3	-0.3	-0.2	-0.2	-0.1	-0.2	-0.2

Diurnal variation of horizontal intensity.

1905.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	-2	-5	-4	-4	-4	-3	-5	-1	-1	-2	-2	-2
2	-2	-3	-4	-2	-4	-3	-5	0	-1	-1	-2	-2
3	-1	-2	-3	0	-4	-2	-4	-2	0	-1	-1	-1
4	+1	0	-2	0	-3	-3	-4	-2	0	+1	0	0
5	+2	+1	-1	+1	-3	-1	-4	-4	-2	+3	+1	+1
6	+4	+4	-1	+1	-1	+1	-2	-4	-2	+2	+2	+2
7	+8	+8	+4	+2	0	+1	0	-7	-7	+4	+7	+8
8	+11	+13	+6	+2	+1	0	+3	-6	-9	+3	+8	+11
9	+9	+13	+8	+6	+7	+1	+7	+1	-6	+5	+6	+8
10	+7	+12	+9	+12	+11	+5	+12	+9	-2	+8	+4	+6
11	+7	+10	+12	+14	+15	+10	+16	+12	+2	+9	+4	+4
12	+4	+8	+13	+10	+13	+11	+17	+13	+3	+6	+3	+3
13	-3	+4	+13	+10	+11	+10	+13	+10	+4	+4	0	-2
14	-8	+1	+10	+7	+7	+7	+6	+5	+1	-2	-5	-5
15	-8	-2	+6	+3	+2	+3	+1	-2	0	-5	-7	-5
16	-6	-5	+2	-2	-2	-2	-6	-4	0	-7	-6	-5
17	-5	-9	-4	-6	-7	-6	-9	-7	0	-7	-4	-6
18	-4	-12	-10	-8	-9	-8	-9	-5	+2	-5	-2	-3
19	-4	-10	-12	-8	-7	-5	-6	-3	+4	-4	0	-2
20	-4	-7	-11	-7	-7	-5	-5	-2	+3	-3	0	-2
21	-4	-5	-9	-7	-7	-2	-4	-2	+2	-2	0	-2
22	-3	-4	-9	-7	-5	-3	-4	+1	+2	-3	-1	-1
23	-2	-4	-7	-5	-5	-3	-4	+1	+2	-1	-2	-1
24	0	-2	-6	-5	-4	-3	-5	0	+2	-2	-2	-1

1906.

1	-1	-7	-7	-5	-4	-4	-3	-3	-4	-2	-5	-1
2	+1	-5	-7	-5	-2	-4	-3	-3	-4	-2	-4	-1
3	+1	-5	-6	-5	-1	-4	-3	-4	-2	+1	-3	-1
4	+3	-3	-5	-3	-1	-5	-3	-5	-2	+1	-1	0
5	+4	-1	-3	-2	0	-4	-3	-6	-2	+1	0	+1
6	+4	+2	-2	-2	0	-3	-1	-5	-1	0	+2	+2
7	+9	+9	+2	-2	-1	-3	-1	-4	-2	0	+6	+5
8	+8	+13	+6	0	0	-2	+3	+2	-1	+1	+8	+6
9	+2	+14	+10	+6	+4	+2	+9	+14	+3	+4	+8	+5
10	-1	+10	+14	+11	+9	+8	+15	+19	+10	+7	+7	+5
11	-2	+6	+19	+13	+11	+11	+16	+20	+13	+10	+9	+5
12	-5	+4	+20	+12	+11	+13	+13	+18	+15	+10	+5	+3
13	-8	+1	+17	+11	+9	+11	+7	+10	+12	+6	-1	-2
14	-7	0	+9	+9	+4	+9	+1	+3	+6	0	-3	-3
15	-5	0	+1	+5	-2	+2	-4	-3	-3	-6	-4	-3
16	-2	-2	-5	-1	-6	-3	-8	-6	-8	-7	-4	-2
17	-1	-4	-9	-4	-6	-4	-9	-8	-8	-4	-3	-3
18	-1	-6	-9	-6	-5	-3	-6	-8	-4	-4	-1	-4
19	-1	-4	-7	-6	-4	-2	-5	-6	-3	-3	-1	-3
20	0	-4	-6	-5	-4	-2	-5	-6	-3	-2	-1	-3
21	0	-3	-7	-5	-2	-2	-4	-6	-3	-4	-2	-2
22	-1	-4	-7	-5	-2	-2	-3	-4	-4	-4	-3	-2
23	0	-5	-7	-5	-3	-3	-3	-4	-4	-3	-4	-2
24	+1	-4	-8	-4	-4	-3	-2	-4	-3	-2	-4	-1

Diurnal variation of vertical intensity.

1905.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	r	r	r	r	r	r	r	r	r	r	r	r
1	+3	+3	+2	-2	-1	0	+1	0	+2	+2
2	+3	+4	+2	-1	-1	+1	+2	+3	+2	+2
3	+3	+3	+2	-1	0	+1	+3	+4	+2	+3
4	+3	+3	+1	+3	0	+2	+4	+5	+3	+3
5	+3	+3	+2	+3	+1	+1	+4	+6	+4	+2
6	+3	+2	+1	+3	0	+1	+3	+7	+5	+2
7	+1	-1	-4	+1	-4	-6	-6	+3	+4	+3
8	-4	-5	-8	-1	-5	-6	-8	-1	+1	+2
9	-8	-7	-10	-1	-2	-3	-7	-3	-3	-2
10	-9	-7	-9	-1	+2	0	-6	-4	-5	-6
11	-8	-8	-8	-2	+6	+1	-4	-2	-5	-8
12	-9	-9	-7	-2	+7	+2	-2	0	-4	-8
13	-8	-6	-5	0	+6	+1	0	0	-4	-7
14	-6	-3	-2	+3	+5	+3	+1	-1	-4	-5
15	-4	-2	+2	+2	+5	+1	+2	0	-3	-2
16	-2	+1	+3	+3	+1	-1	0	0	+1	+1
17	0	0	+3	-2	0	-1	0	0	0	+1
18	+3	+2	+4	-3	-2	-1	+2	0	+1	+3
19	+5	+3	+6	-2	-2	0	+2	0	+1	+3
20	+7	+5	+7	-1	-1	0	+2	-2	0	+2
21	+7	+5	+5	0	-3	+1	+2	-3	0	+2
22	+6	+4	+6	+1	-4	+1	+1	-4	0	+2
23	+6	+5	+5	0	-4	+1	+2	-5	0	+2
24	+4	+4	+4	0	-4	0	+1	-4	0	+1

1906.

1	+3	+2	+1	0	-1	-3	-1	-2	+3	+2	+1	+3
2	+2	0	+1	+1	-1	-3	-2	-2	+4	+2	+2	+3
3	+2	+1	+1	+1	-1	-2	-2	-1	+3	+2	+2	+3
4	+2	0	0	+2	-1	-3	-2	-1	+2	+3	+3	+3
5	+2	0	-1	+2	0	-2	-2	-1	+2	+2	+2	+3
6	+2	+1	-1	+1	-1	-2	-4	+1	+1	+1	+2	+2
7	+1	+3	-2	-1	-4	-6	-10	-5	-7	-2	+2	+3
8	-2	+1	-5	-2	-4	-8	-11	-8	-10	-7	-3	-2
9	-7	-3	-8	-2	-4	-6	-5	-8	-8	-9	-6	-7
10	-11	-7	-8	-2	-2	-4	-1	-3	-6	-6	-8	-11
11	-13	-11	-6	-2	+1	0	+3	0	-3	-3	-8	-12
12	-11	-10	-4	-2	+3	+2	+5	0	+1	-1	-5	-10
13	-7	-6	-2	+1	+4	+4	+6	0	+1	-2	-2	-6
14	-3	-3	+1	+1	+4	+6	+7	+3	+1	-1	+1	-3
15	0	0	+2	+2	+4	+6	+7	+5	0	+1	+4	0
16	+2	+4	+4	+1	+2	+6	+6	+5	0	+2	+5	+3
17	+4	+5	+5	+1	+1	+5	+3	+3	+1	+2	+5	+2
18	+6	+5	+5	0	+1	+5	+3	+3	+3	+2	+3	+3
19	+6	+5	+5	+1	+1	+5	+2	+3	+2	+3	+1	+4
20	+6	+5	+4	0	0	+3	0	+3	+1	+3	0	+3
21	+5	+4	+4	0	0	+1	0	+1	+2	+1	-1	+4
22	+4	+2	+2	-1	-1	+1	0	+1	+2	+1	-1	+3
23	+4	+1	+1	0	-1	-1	-1	0	+2	+1	-2	+4
24	+3	+1	+1	0	-1	-3	0	-2	+3	+2	0	+4

Diurnal variation of dip.

1905.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	/	/	/	/	/	/	/	/	/	/	/	/
1	+0.4	+0.4	+0.3	0.0	+0.2	+0.1	+0.1	+0.1	+0.2	+0.2
2	+0.4	+0.3	+0.3	+0.1	+0.2	+0.1	+0.2	+0.2	+0.2	+0.2
3	+0.3	+0.2	+0.3	+0.1	+0.2	+0.2	+0.2	+0.3	+0.2	+0.2
4	+0.3	+0.2	+0.2	+0.3	+0.2	+0.2	+0.2	+0.2	+0.2	+0.1
5	+0.2	+0.1	+0.3	+0.2	+0.3	+0.3	+0.3	+0.1	+0.1	0.0
6	+0.2	+0.1	+0.1	+0.1	+0.1	+0.3	+0.3	+0.2	+0.1	0.0
7	-0.2	-0.2	-0.2	0.0	-0.2	+0.1	+0.1	-0.1	-0.2	-0.3
8	-0.6	-0.4	-0.5	-0.1	-0.4	0.0	+0.1	-0.2	-0.4	-0.5
9	-0.9	-0.7	-0.9	-0.1	-0.5	-0.2	0.0	-0.4	-0.5	-0.6
10	-1.0	-1.0	-1.1	-0.3	-0.6	-0.5	-0.2	-0.7	-0.5	-0.6
11	-1.1	-1.2	-1.3	-0.7	-0.6	-0.6	-0.3	-0.6	-0.5	-0.6
12	-1.2	-1.0	-1.1	-0.7	-0.6	-0.7	-0.3	-0.4	-0.4	-0.6
13	-1.2	-0.9	-0.9	-0.6	-0.5	-0.5	-0.2	-0.2	-0.2	-0.2
14	-0.9	-0.6	-0.5	-0.3	-0.1	-0.1	0.0	+0.1	+0.1	0.0
15	-0.5	-0.3	0.0	-0.1	+0.2	+0.2	+0.1	+0.3	+0.3	+0.2
16	-0.2	+0.2	+0.3	+0.3	+0.4	+0.2	0.0	+0.4	+0.4	+0.3
17	+0.2	+0.4	+0.6	+0.3	+0.5	+0.4	0.0	+0.4	+0.2	+0.4
18	+0.7	+0.6	+0.7	+0.3	+0.4	+0.2	0.0	+0.3	+0.2	+0.3
19	+1.0	+0.6	+0.7	+0.2	+0.3	+0.2	-0.1	+0.2	+0.1	+0.3
20	+1.0	+0.7	+0.8	+0.2	+0.2	+0.1	-0.1	+0.1	0.0	+0.2
21	+0.9	+0.7	+0.7	+0.1	+0.1	+0.2	0.0	0.0	0.0	+0.2
22	+0.8	+0.6	+0.6	+0.2	0.0	0.0	-0.1	0.0	+0.1	+0.2
23	+0.7	+0.5	+0.5	+0.2	0.0	0.0	0.0	-0.2	+0.1	+0.2
24	+0.6	+0.5	+0.4	+0.2	+0.1	0.0	-0.1	-0.1	+0.1	+0.1

1906.

1	+0.2	+0.5	+0.5	+0.3	+0.2	+0.1	0.0	+0.1	+0.4	+0.2	+0.3	+0.2
2	0.0	+0.3	+0.5	+0.3	+0.1	+0.1	+0.1	+0.1	+0.4	+0.2	+0.3	+0.2
3	0.0	+0.3	+0.4	+0.3	0.0	+0.1	+0.1	+0.2	+0.3	0.0	+0.3	+0.2
4	-0.1	+0.2	+0.3	+0.3	0.0	+0.1	+0.1	+0.2	+0.2	+0.1	+0.2	+0.2
5	-0.1	+0.1	+0.1	+0.2	0.0	+0.1	+0.1	+0.3	+0.2	0.0	+0.1	+0.1
6	-0.1	-0.1	+0.1	+0.2	0.0	+0.1	-0.1	+0.3	+0.1	0.0	0.0	0.0
7	-0.5	-0.4	-0.2	+0.1	-0.1	-0.1	-0.4	0.0	-0.2	-0.1	-0.2	-0.1
8	-0.6	-0.7	-0.6	-0.1	-0.2	-0.3	-0.7	-0.5	-0.4	-0.4	-0.6	-0.4
9	-0.5	-1.0	-1.0	-0.4	-0.4	-0.4	-0.8	-1.1	-0.6	-0.7	-0.8	-0.6
10	-0.5	-0.9	-1.2	-0.7	-0.6	-0.7	-0.9	-1.2	-0.9	-0.7	-0.8	-0.8
11	-0.5	-0.9	-1.4	-0.9	-0.6	-0.6	-0.8	-1.2	-0.9	-0.7	-0.9	-0.9
12	-0.3	-0.7	-1.4	-0.8	-0.5	-0.7	-0.5	-1.0	-0.8	-0.6	-0.5	-0.7
13	+0.1	-0.4	-1.1	-0.6	-0.3	-0.4	-0.1	-0.6	-0.6	-0.4	0.0	-0.2
14	+0.3	-0.2	-0.5	-0.5	0.0	-0.2	+0.3	0.0	-0.3	0.0	+0.2	0.0
15	+0.3	0.0	0.0	-0.2	+0.3	+0.2	+0.6	+0.4	+0.2	+0.4	+0.4	+0.2
16	+0.2	+0.3	+0.5	+0.1	+0.4	+0.5	+0.8	+0.6	+0.5	+0.5	+0.5	+0.3
17	+0.3	+0.5	+0.8	+0.3	+0.4	+0.5	+0.7	+0.6	+0.5	+0.3	+0.4	+0.3
18	+0.4	+0.6	+0.8	+0.4	+0.3	+0.4	+0.5	+0.6	+0.4	+0.3	+0.2	+0.4
19	+0.4	+0.5	+0.7	+0.4	+0.3	+0.4	+0.4	+0.5	+0.3	+0.3	+0.1	+0.4
20	+0.3	+0.5	+0.6	+0.3	+0.2	+0.3	+0.3	+0.5	+0.2	+0.3	+0.1	+0.3
21	+0.3	+0.4	+0.6	+0.3	+0.1	+0.2	+0.2	+0.4	+0.3	+0.3	+0.1	+0.3
22	+0.3	+0.3	+0.5	+0.2	+0.1	+0.2	+0.2	+0.3	+0.3	+0.3	+0.1	+0.3
23	+0.2	+0.3	+0.5	+0.3	+0.1	+0.1	+0.1	+0.2	+0.3	+0.2	+0.1	+0.3
24	+0.1	+0.3	+0.5	+0.2	+0.2	0.0	+0.1	+0.1	+0.3	+0.2	+0.2	+0.3

Diurnal variation of X.

1905.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>
1	- 2	- 6	- 4	- 4	- 4	- 3	- 6	- 2	- 1	- 3	- 2	- 3
2	- 2	- 4	- 4	- 2	- 4	- 3	- 5	0	- 1	- 2	- 2	- 3
3	- 2	- 2	- 3	0	- 4	- 2	- 4	- 2	+ 1	- 1	- 1	- 2
4	0	0	- 2	+ 1	- 2	- 3	- 4	- 1	+ 2	+ 1	0	- 1
5	+ 2	+ 1	- 1	+ 2	- 1	0	- 3	- 2	0	+ 3	+ 2	+ 1
6	+ 3	+ 4	- 1	+ 3	+ 3	+ 5	+ 2	+ 1	+ 4	+ 3	+ 3	+ 2
7	+ 7	+ 8	+ 6	+ 7	+ 8	+ 9	+ 8	+ 3	+ 4	+ 8	+ 9	+ 8
8	+12	+15	+12	+ 9	+10	+ 9	+11	+ 4	+ 1	+10	+12	+14
9	+14	+18	+16	+13	+14	+ 7	+13	+ 8	+ 1	+12	+12	+13
10	+15	+20	+16	+18	+13	+ 8	+15	+11	0	+14	+10	+12
11	+14	+17	+16	+16	+14	+10	+16	+11	- 1	+12	-	-
12	+ 7	+12	+13	+ 8	+ 9	+ 9	+14	+10	- 3	+ 6	+ 5	+ 5
13	- 4	+ 4	+10	+ 4	+ 5	+ 7	+ 9	+ 5	- 3	+ 3	- 1	- 4
14	-12	- 1	+ 4	- 1	0	+ 3	0	- 1	- 5	- 4	- 8	- 9
15	-13	- 5	0	- 5	- 4	- 1	- 5	- 8	- 5	- 8	-11	-10
16	-11	- 9	- 2	- 7	- 5	- 5	-10	- 8	- 3	-11	-10	- 9
17	- 8	-13	- 6	- 8	- 8	- 9	-11	- 9	- 2	-11	- 8	- 8
18	- 3	-14	-11	- 9	- 9	-10	-10	- 7	0	- 8	- 5	- 4
19	- 4	-12	-13	- 9	- 7	- 7	- 8	- 5	+ 2	- 6	- 2	- 3
20	- 4	- 8	-12	- 7	- 7	- 7	- 7	- 4	+ 1	- 5	- 1	- 2
21	- 4	- 5	- 9	- 7	- 7	- 4	- 5	- 3	0	- 3	0	- 2
22	- 3	- 4	- 9	- 7	- 5	- 4	- 5	0	+ 1	- 4	- 1	- 1
23	- 2	- 4	- 7	- 5	- 5	- 4	- 5	0	+ 1	- 2	- 2	- 1
24	0	- 3	- 7	- 5	- 4	- 4	- 5	- 1	+ 2	- 3	- 2	- 1

1906.

1	- 1	- 7	- 7	- 5	- 4	- 4	- 3	- 3	- 4	- 2	- 5	- 1
2	+ 1	- 5	- 7	- 5	- 2	- 4	- 3	- 3	- 4	- 2	- 4	- 1
3	+ 1	- 5	- 6	- 5	- 1	- 4	- 3	- 4	- 2	+ 1	- 3	- 1
4	+ 3	- 3	- 5	- 3	- 1	- 5	- 3	- 5	- 2	+ 1	- 1	0
5	+ 4	- 1	- 3	- 2	0	- 4	- 3	- 6	- 2	+ 1	0	+ 1
6	+ 4	+ 2	- 2	- 2	0	- 3	- 1	- 5	- 1	0	+ 2	+ 2
7	+ 9	+ 9	+ 2	- 2	0	- 2	0	- 3	- 1	0	+ 6	+ 5
8	+ 8	+13	+ 7	+ 1	+ 1	- 1	+ 4	+ 3	0	+ 1	+ 8	+ 6
9	+ 3	+14	+11	+ 7	+ 5	+ 3	+10	+15	+ 4	+ 4	+ 8	+ 5
10	0	+11	+15	+11	+ 9	+ 8	+15	+19	+10	+ 7	+ 7	+ 6
11	- 1	+ 7	+19	+13	+11	+11	+16	+20	+13	+10	+ 9	+ 6
12	- 5	+ 4	+20	+12	+11	+13	+13	+18	+15	+10	+ 5	+ 3
13	- 8	+ 1	+17	+11	+ 9	+11	+ 7	+ 9	+11	+ 6	- 1	- 2
14	- 8	0	+ 9	+ 9	+ 4	+ 9	0	+ 2	+ 5	0	- 3	- 3
15	- 6	0	+ 1	+ 4	- 2	+ 2	- 4	- 4	- 3	- 6	- 4	- 4
16	- 2	- 2	- 5	- 1	- 6	- 3	- 8	- 6	- 8	- 7	- 4	- 2
17	- 1	- 4	- 9	- 4	- 6	- 4	- 9	- 8	- 8	- 4	- 3	- 3
18	- 1	- 6	- 9	- 6	- 5	- 3	- 6	- 8	- 4	- 4	- 1	- 4
19	- 1	- 4	- 7	- 6	- 4	- 2	- 5	- 6	- 3	- 3	- 1	- 3
20	0	- 4	- 6	- 5	- 4	- 2	- 5	- 6	- 3	- 2	- 1	- 3
21	0	- 3	- 7	- 5	- 2	- 2	- 4	- 6	- 3	- 4	- 2	- 2
22	- 1	- 4	- 7	- 5	- 2	- 2	- 3	- 4	- 4	- 4	- 3	- 2
23	0	- 5	- 7	- 5	- 3	- 3	- 3	- 4	- 4	- 3	- 4	- 2
24	+ 1	- 4	- 8	- 4	- 4	- 3	- 2	- 4	- 3	- 2	- 4	- 1

Diurnal variation of Y.

1905.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>
1	- 1	- 2	- 2	+ 1	- 1	- 2	- 2	- 3	- 1	- 3	- 2	- 3
2	- 2	- 3	- 2	+ 1	0	- 2	- 2	- 2	0	- 3	- 1	- 3
3	- 3	- 2	- 1	+ 1	+ 2	- 1	- 2	0	+ 3	- 2	- 1	- 3
4	- 3	- 2	0	+ 3	+ 4	+ 1	0	+ 3	+ 6	- 2	+ 1	- 3
5	- 2	- 1	+ 2	+ 4	+ 7	+ 3	+ 4	+ 7	+ 9	0	+ 3	- 2
6	- 3	- 1	+ 2	+ 8	+14	+15	+14	+18	+21	+ 3	+ 3	0
7	- 4	- 2	+ 7	+19	+27	+26	+28	+37	+38	+14	+ 7	- 1
8	+ 4	+ 6	+20	+25	+30	+32	+29	+36	+36	+23	+15	+ 9
9	+18	+17	+27	+24	+23	+22	+20	+24	+24	+25	+19	+18
10	+26	+28	+25	+19	+ 7	+11	+10	+ 8	+ 8	+20	+19	+22
11	+24	+25	+14	+ 8	- 3	+ 1	0	- 5	-10	+ 9	+11	+18
12	+ 9	+13	+ 1	- 7	-13	- 9	-10	-11	-22	0	+ 2	+ 8
13	- 5	+ 1	-12	-21	-22	-12	-16	-16	-25	- 4	- 4	- 5
14	-14	- 6	-22	-29	-26	-14	-20	-21	-21	- 8	- 9	-14
15	-18	-10	-21	-29	-22	-14	-20	-20	-17	-12	-13	-17
16	-19	-13	-15	-19	-12	-12	-14	-13	-10	-13	-13	-13
17	-12	-13	- 8	- 8	- 2	-10	- 7	- 8	- 6	-13	-13	- 8
18	- 3	- 8	- 5	- 4	0	- 8	- 4	- 6	- 7	- 9	-10	- 3
19	- 2	- 7	- 4	- 2	- 1	- 8	- 5	- 6	- 5	- 8	- 8	- 3
20	0	- 3	- 2	- 1	- 2	- 8	- 5	- 6	- 5	- 5	- 4	0
21	+ 1	- 2	- 1	- 1	- 2	- 6	- 4	- 4	- 5	- 4	- 2	+ 1
22	+ 2	- 1	- 1	+ 1	- 1	- 4	- 4	- 4	- 4	- 4	- 1	+ 1
23	+ 1	- 2	- 2	0	0	- 4	- 2	- 3	- 3	- 4	- 1	+ 1
24	0	- 2	- 2	+ 1	0	- 3	- 2	- 3	- 2	- 3	- 1	- 1

1906.

1	- 2	- 3	- 1	- 1	- 2	- 2	- 2	- 1	- 2	- 2	- 2	- 2
2	- 3	- 4	- 1	0	0	- 1	- 1	0	- 1	- 3	- 2	- 3
3	- 3	- 5	- 2	0	+ 1	0	0	0	+ 1	- 2	- 2	- 3
4	- 3	- 4	- 2	+ 1	+ 2	+ 3	+ 3	+ 4	+ 3	0	- 1	- 1
5	- 2	- 3	- 1	+ 2	+ 3	+ 4	+ 6	+ 7	+ 7	+ 2	0	0
6	+ 1	- 3	+ 3	+ 6	+13	+14	+17	+16	+14	+ 3	0	- 1
7	+ 3	- 5	+ 8	+16	+26	+26	+32	+32	+28	+12	+ 1	0
8	+15	+ 4	+19	+19	+27	+31	+33	+31	+29	+17	+ 9	+ 8
9	+32	+17	+21	+18	+19	+21	+23	+18	+19	+16	+17	+17
10	+37	+29	+18	+16	+ 5	+11	+10	+ 3	+ 6	+ 8	+16	+22
11	+26	+30	+11	+10	- 5	- 1	- 5	- 7	- 6	- 1	+ 8	+19
12	+ 2	+16	+ 2	0	-11	- 9	-12	-13	-16	- 6	- 4	+ 3
13	-17	+ 3	- 9	-11	-14	-13	-17	-19	-20	- 7	- 9	-11
14	-24	- 8	-15	-17	-15	-16	-18	-21	-19	- 8	-13	-17
15	-21	-13	-14	-18	-13	-15	-16	-20	-15	- 8	-11	-20
16	-14	-13	-12	-12	- 8	-12	-13	-12	- 8	- 8	- 8	-13
17	-10	-12	- 9	- 5	- 5	- 8	- 7	- 4	- 5	- 7	- 3	- 4
18	- 7	- 8	- 6	- 3	- 5	- 7	- 6	- 1	- 3	- 4	- 2	- 1
19	- 5	- 6	- 4	- 4	- 4	- 5	- 7	- 2	- 3	- 2	0	0
20	- 3	- 4	- 2	- 4	- 4	- 5	- 6	- 2	- 3	0	+ 2	+ 2
21	- 1	- 2	- 2	- 4	- 3	- 5	- 4	- 2	- 3	+ 1	+ 2	+ 2
22	- 1	- 1	- 1	- 2	- 3	- 5	- 4	- 2	- 2	+ 1	+ 1	+ 1
23	- 2	- 2	0	- 2	- 3	- 3	- 3	- 2	- 2	- 1	0	0
24	- 2	- 3	- 1	- 2	- 2	- 3	- 3	- 2	- 2	- 1	- 2	- 2

SUMMARY OF MONTHLY MEANS.

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Summary of monthly means.

1905.

Month	D	H	I	X	Y	Z	F
	° /	γ	° /	γ	γ	γ	γ
January.....	-1 34.8	29266	49 13.8*	29254	-807	33941*	44816*
February.....	35.5	254	14.7*	243	-813	945*	812*
March.....	36.2	265	15.5	254	-819	974	840
April.....	36.8	256	16.1	244	-824	974	834
May.....	37.4	264	16.1	252	-829	985	849
June.....	37.9	255	16.9	243	-833	33991	847
July.....	38.6	257	17.4	245	-839	34002	856
August.....	39.3	247	18.0	235	-845	34003	851
September.....	39.8	238	17.9	226	-849	33991	836
October.....	40.7	241	18.3	228	-856	34002	846
November.....	40.6	231	19.3	218	-855	010	846
December.....	41.5	228	19.9	215	-863	019	851
Mean.....	-1 38.3	29250	49 17.0	29238	-836	33986	44840

1906.

January.....	-1 42.2	29230	49 19.6	29217	-869	34016	44849
February.....	42.7	228	20.3	215	-873	027	856
March.....	43.7	218	20.5	204	-881	020	845
April.....	44.4	223	21.0	209	-887	034	858
May.....	44.7	210	21.7	196	-889	033	850
June.....	45.8	213	21.5	199	-899	033	852
July.....	46.2	200	22.6	186	-902	039	848
August.....	46.9	195	22.6	181	-908	034	840
September.....	47.7	186	22.9	172	-914	029	831
October.....	48.3	178	23.6	163	-919	035	830
November.....	48.8	177	24.1	162	-923	042	835
December.....	49.7	164	25.3	149	-930	052	834
Mean.....	-1 45.9	29202	49 22.1	29188	-900	34033	44844

* As the vertical intensity variometer was not in adjustment during January and February, 1905, the mean values of *I* for those months have been obtained by correcting the observed values for diurnal variation. The values of *Z* and *F* were then computed.

JANUARY, 1905.

1° WEST PLUS TABULAR MINUTES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	34.8	35.1	35.1	35.1	34.9	35.0	35.0	33.6	32.0	31.3	31.4	33.4	34.9	35.7	36.4
2*	35.0	35.0	35.0	35.0	35.0	35.0	35.1	34.4	32.8	31.9	32.0	34.3	36.2	36.9	36.9
3	35.1	35.1	35.2	35.2	35.0	35.0	34.8	34.2	33.4	33.1	33.0	33.9	35.6	35.8	36.3
4	34.8	35.0	35.0	35.0	35.0	35.3	35.3	34.3	33.9	33.5	32.7	34.3	36.6	36.6	36.6
5	35.7	35.9	35.7	35.3	35.4	35.0	35.7	35.0	33.3	32.3	31.9	33.7	35.5	37.1	36.5
6	34.7	35.0	34.4	34.8	34.7	34.5	34.5	33.7	33.3	32.7	33.3	34.9	36.1	37.1	36.9
7	34.9	35.2	35.0	35.0	34.9	35.3	35.5	35.3	34.3	34.8	35.4	35.6	36.1	36.1	36.4
8	34.9	35.3	35.3	34.9	35.0	34.9	35.3	34.3	33.6	33.4	33.2	33.6	35.0	37.0	38.2
9	34.8	35.0	35.4	35.4	35.3	35.3	35.3	34.6	34.1	33.7	33.5	35.2	37.8	39.0	38.9
10	35.2	34.8	35.7	35.2	35.3	35.2	35.1	34.3	32.1	31.2	31.7	33.1	34.8	36.7	37.6
11*	34.0	34.3	34.1	34.5	35.1	35.5	36.0	35.4	34.0	33.5	33.6	34.2	36.1	38.4	38.8
12*	35.2	35.5	35.5	35.5	35.3	35.2	35.1	33.6	32.1	31.8	32.3	33.1	34.7	36.5	37.2
13*	34.8	34.7	35.2	35.1	35.1	35.1	35.1	34.4	32.8	31.8	31.7	32.7	35.1	36.2	36.3
14	34.7	35.1	35.3	34.5	34.7	34.4	34.8	34.2	32.6	31.8	32.7	33.2	35.1	36.8	37.1
15	34.4	34.8	35.1	35.2	35.1	35.1	35.6	34.2	33.2	31.8	31.4	31.6	33.5	35.9	37.8
16	35.1	35.2	35.3	35.2	35.0	35.0	35.2	34.3	32.6	31.5	31.0	32.2	33.8	35.0	36.8
17	34.1	34.4	34.5	34.7	34.3	34.1	36.2	34.4	33.3	32.5	31.7	33.5	36.4	37.4	37.5
18*	34.5	34.9	34.5	35.2	34.5	35.0	35.6	34.7	33.3	32.0	32.0	33.3	34.4	35.5	36.8
19	35.0	35.2	35.2	35.2	35.1	34.9	35.2	34.5	32.8	31.6	30.9	32.8	36.3	37.9	38.2
20*	34.6	35.0	35.2	35.1	34.8	34.8	34.8	34.5	33.6	33.2	33.7	35.1	36.1	36.6	36.4
21	35.1	35.4	35.4	35.2	35.2	35.2	35.0	33.8	32.7	31.2	31.5	33.6	35.4	36.1	36.3
22	35.3	35.3	34.8	35.5	34.4	34.2	35.4	35.1	33.9	33.2	33.6	34.8	36.2	36.8	37.2
23	35.0	35.1	35.0	34.9	34.8	34.7	34.7	33.8	32.6	31.5	32.3	35.0	35.5	35.0	35.0
24	35.0	35.3	35.5	35.5	35.5	35.5	35.5	34.4	32.3	30.9	31.3	34.2	36.1	36.6	36.6
25	35.6	35.8	35.6	35.5	35.9	35.2	35.2	33.5	31.7	30.7	32.4	34.7	35.9	36.7	36.2
26*	35.6	35.6	35.5	35.4	35.2	34.9	34.4	33.1	29.8	29.2	31.2	34.8	37.4	37.7	37.3
27*	35.2	35.2	35.2	35.2	35.2	35.2	35.4	35.0	32.6	30.8	31.0	32.4	34.0	35.5	37.1
28	35.1	35.4	35.7	35.8	35.5	35.5	35.5	34.5	31.9	29.2	29.5	33.1	35.8	37.1	37.1
29*	34.9	35.1	35.4	34.7	35.2	35.2	35.2	34.5	32.7	31.3	31.5	34.0	35.1	36.1	36.9
30	34.8	34.9	34.9	35.2	35.3	35.4	35.3	34.0	31.5	28.7	29.1	32.2	33.6	35.4	37.0
31	35.3	35.3	35.4	35.4	35.5	35.9	37.3	35.3	34.0	30.9	30.7	32.4	34.7	37.0	37.7
Mean....	34.9	35.1	35.2	35.1	35.1	35.0	35.3	34.4	32.9	31.8	32.0	33.7	35.5	36.6	37.0
Mean*....	34.9	35.0	35.1	35.1	35.0	35.1	35.2	34.3	32.6	31.7	32.0	33.7	35.4	36.5	37.0

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1° WEST PLUS TABULAR MINUTES.

1	34.7	35.1	35.4	35.4	35.3	35.3	35.7	34.6	32.3	29.7	30.4	32.9	35.4	36.6	37.7
2	35.7	35.4	35.5	35.3	35.1	35.2	35.9	35.5	33.0	31.5	30.7	32.3	34.5	36.3	37.1
3	34.9	33.9	33.0	33.0	33.7	36.6	37.5	37.8	36.9	31.5	31.1	31.8	32.1	33.1	34.2
4*	35.4	35.3	34.9	34.9	34.7	34.8	35.1	34.6	34.6	32.7	31.9	32.3	33.9	34.8	34.7
5	36.3	36.6	37.1	35.4	37.2	35.4	35.4	33.1	31.9	31.5	32.1	31.9	33.3	34.9	37.1
6*	35.7	36.0	35.4	35.3	35.6	35.7	35.9	35.1	33.2	31.4	31.6	32.1	33.2	36.2	37.5
7	35.8	35.7	35.7	35.8	36.2	35.4	35.6	33.9	32.0	30.6	32.1	34.6	36.2	37.2	37.2
8	34.7	35.3	35.4	35.2	35.4	35.6	35.3	34.1	32.9	31.5	32.4	34.7	37.0	38.4	38.4
9*	36.2	35.8	35.8	36.2	35.9	35.3	35.6	33.4	31.4	29.4	31.4	34.6	36.4	36.8	37.1
10*	35.3	35.1	35.4	35.2	35.3	35.3	35.0	33.5	31.8	30.0	30.2	32.9	36.4	37.6	38.7
11*	35.4	35.7	35.7	35.9	35.7	35.7	35.4	34.1	31.6	29.1	29.0	32.2	34.7	36.2	37.0
12	35.9	35.9	36.0	36.0	35.8	35.9	36.2	35.9	35.3	35.2	35.0	37.1	37.6	38.0	38.3
13	(35.8)	(35.7)	(35.6)	(35.5)	(35.4)	(35.3)	(35.3)	(34.4)	32.8	31.6	31.0	32.9	34.5	35.7	36.6
14	35.0	34.8	35.4	34.7	35.3	35.4	35.4	35.8	34.8	32.6	32.8	33.8	34.5	35.2	35.4
15	34.8	35.7	34.4	34.7	36.0	35.3	36.2	36.2	34.5	33.4	33.0	34.1	34.5	36.0	36.0
16	35.2	35.3	34.9	35.7	35.5	35.7	36.3	36.2	35.0	32.8	32.7	34.1	34.3	34.4	35.1
17	35.1	35.0	35.1	35.3	35.5	35.6	35.6	34.9	34.0	33.2	33.8	35.6	36.1	35.9	36.2
18	36.5	36.1	35.8	35.7	35.7	35.3	35.7	35.1	34.5	34.4	35.5	36.8	36.4	35.8	35.8
19	35.9	35.7	35.9	36.1	36.1	36.1	36.8	35.9	34.9	34.0	34.0	34.9	35.6	35.9	36.1
20	35.9	35.7	(36.1)	(36.1)	(36.2)	(36.2)	(36.4)	35.5	34.3	33.8	34.4	36.3	36.8	37.1	36.9
21	35.3	35.3	36.3	35.9	35.9	35.7	36.1	35.2	34.1	34.1	35.0	36.2	36.8	(37.4)	(37.5)
22	36.3	36.1	36.1	36.1	35.9	35.9	35.6	34.7	33.2	32.6	33.8	35.6	36.8	37.6	38.3
23	36.3	36.4	36.4	37.1	35.6	36.5	37.9	36.2	33.5	33.1	33.7	35.1	35.5	35.5	36.4
24	36.1	36.2	36.4	36.8	36.4	36.3	35.7	34.3	32.9	32.3	32.8	34.0	36.5	36.8	38.7
25	35.7	35.9	36.1	35.9	36.7	35.7	35.8	34.5	33.3	32.5	32.8	34.4	35.6	37.6	38.0
26*	36.0	36.1	36.1	36.0	36.0	35.6	36.0	35.8	34.8	34.3	34.5	35.8	37.0	36.6	37.0
27*	36.0	35.7	35.8	35.4	35.2	35.2	35.6	35.5	34.2	33.7	34.0	34.4	35.1	35.5	36.3
28*	36.0	36.0	36.0	36.1	35.8	35.7	35.6	34.5	33.9	33.9	34.3	34.4	35.0	35.6	35.5
Mean....	35.6	35.6	35.6	35.6	35.7	35.6	35.9	35.0	33.6	32.4	32.7	34.2	35.4	36.3	36.8
Mean*....	35.8	35.8	35.7	35.7	35.6	35.6	35.7	34.8	33.5	32.2	32.5	34.0	35.4	36.2	36.7

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF DECLINATION.

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1° WEST PLUS TABULAR MINUTES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum		Minimum		Range	Day
										<i>h</i>	<i>m</i>				
36.3	35.8	35.1	34.9	34.8	34.8	34.8	34.8	34.9	34.6	15	27	36.7	10 00	31.3	1
36.4	35.5	34.6	34.5	34.4	34.4	34.5	34.8	34.8	34.8	14	32	37.0	10 18	31.8	2
36.3	35.6	34.4	34.4	34.4	34.4	34.8	35.4	34.8	34.8	14	51	36.3	11 00	33.0	3
36.2	35.4	34.2	34.2	34.2	34.2	34.1	34.7	35.4	34.9	14	30	37.1	10 38	32.5	4
33.9	34.9	34.8	34.5	31.3	33.8	33.7	34.2	34.2	34.6	14	28	37.4	19 45	30.1	5
36.5	36.2	35.4	34.5	34.8	34.7	34.8	35.0	35.0	34.9	14	31	37.3	10 00	32.7	6
36.1	35.6	34.9	34.8	34.4	34.6	34.6	34.7	34.8	35.2	15	20	36.5	9 22	34.1	7
37.2	35.6	34.8	34.6	34.6	34.4	34.6	34.7	34.8	35.0	15	00	38.2	11 00	33.2	8
37.6	35.6	34.4	34.4	34.3	34.4	34.4	34.4	35.0	35.3	14	00	39.0	11 00	33.5	9
37.0	36.2	34.7	34.9	34.7	34.2	34.0	34.0	33.9	34.6	14	56	37.7	10 00	31.2	10
38.2	36.4	35.4	35.1	34.6	34.3	33.7	34.3	34.8	35.2	14	41	38.9	9 36	33.3	11
37.6	36.4	34.9	34.9	34.7	34.5	34.3	34.3	34.6	34.8	16	00	37.6	10 00	31.8	12
36.6	36.3	35.6	35.1	35.0	34.7	34.7	34.7	34.8	34.7	15	33	36.8	10 47	31.6	13
37.0	36.2	35.9	35.6	35.1	34.4	34.1	34.5	34.5	34.8	15	00	37.1	10 00	31.8	14
38.1	37.1	35.9	35.4	35.0	35.1	35.1	35.1	35.1	34.9	15	44	38.2	11 28	31.2	15
37.1	36.8	35.6	35.3	35.2	35.0	35.3	34.0	35.5	34.7	16	00	37.1	11 00	31.0	16
37.0	35.7	35.3	35.0	34.9	34.5	34.5	34.5	34.5	34.8	15	00	37.5	10 57	31.5	17
37.3	36.5	35.3	35.2	35.2	35.0	35.1	35.1	35.1	34.8	16	00	37.3	10 30	31.7	18
37.0	36.0	35.1	34.9	34.9	34.2	34.5	34.6	34.2	34.8	14	54	38.4	10 56	30.8	19
36.4	35.6	34.5	34.9	34.5	34.5	34.5	34.9	34.9	34.9	13	50	36.8	9 45	33.0	20
36.4	35.7	34.9	34.2	34.3	34.4	34.4	34.5	35.8	34.7	15	37	36.6	10 00	31.2	21
36.8	35.5	34.9	34.7	34.7	34.7	34.7	34.9	35.0	35.1	14	55	37.2	10 04	33.2	22
34.7	34.3	35.0	34.8	34.8	34.8	34.8	34.8	34.9	34.5	12	36	35.5	10 00	31.5	23
36.1	35.9	34.4	34.8	34.2	34.3	34.5	35.0	35.1	34.8	14	37	36.7	10 03	30.8	24
35.9	35.8	35.3	34.8	33.4	34.4	34.7	34.7	35.0	34.8	13	48	37.0	9 48	30.5	25
36.8	36.0	35.8	35.4	35.0	34.8	34.7	34.8	35.0	34.8	13	38	37.8	9 38	28.8	26
37.6	37.1	35.8	35.2	35.5	35.0	35.0	35.0	35.0	34.8	16	00	37.6	10 13	30.6	27
37.0	36.3	35.8	35.4	35.3	34.9	34.6	33.5	34.6	34.8	14	37	37.5	10 35	28.9	28
37.2	36.6	35.4	34.9	34.6	34.6	34.6	34.7	34.6	34.8	15	35	37.3	10 39	31.1	29
37.3	36.7	35.9	35.4	35.4	35.4	35.2	35.2	35.3	34.5	16	00	37.3	10 20	28.3	30
40.3	37.7	36.4	35.5	35.1	34.8	34.7	34.5	34.6	35.3	15	48	40.5	10 41	30.6	31
36.8	36.0	35.2	34.9	34.6	34.6	34.6	34.6	34.8	34.8					5.9	
37.0	36.2	35.2	35.0	34.8	34.7	34.6	34.7	34.8	34.8					5.9	

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1° WEST PLUS TABULAR MINUTES.

37.8	37.2	35.9	35.1	34.6	34.6	34.8	34.3	34.6	34.8	16 00	37.8	10 19	29.1	8.7	1
37.3	37.3	36.4	35.9	35.8	35.4	32.4	34.2	34.6	34.9	16 46	37.6	11 00	30.7	6.9	2
34.3	35.9	34.3	34.7	34.9	34.6	34.7	34.9	35.8	34.4	5 37	39.4	9 56	30.9	8.5	3
36.3	37.0	36.3	36.1	35.8	35.4	35.5	35.8	35.9	34.9	17 00	37.0	11 40	31.6	5.4	4
37.6	37.0	36.1	35.9	33.6	34.9	35.4	35.1	35.3	35.0	15 47	37.8	9 39	29.7	8.1	5
38.3	37.6	36.6	36.2	35.6	35.3	35.3	35.4	35.7	35.2	16 14	38.4	10 13	31.0	7.4	6
37.8	37.6	36.9	36.0	35.2	35.2	35.2	35.0	34.7	35.3	16 12	38.0	10 00	30.6	7.4	7
37.7	36.9	35.9	35.8	35.8	35.6	35.3	35.6	35.7	35.4	14 31	38.8	10 03	31.4	7.4	8
37.0	37.2	36.5	36.2	35.7	35.4	35.3	35.2	35.3	35.2	15 44	37.2	10 00	29.4	7.8	9
38.4	37.6	36.4	36.5	35.7	35.2	35.0	35.0	35.3	35.1	15 12	38.8	10 34	29.4	9.4	10
37.6	37.4	36.8	36.5	36.2	35.9	35.6	35.6	35.7	35.0	15 46	37.7	10 36	28.6	9.1	11
38.1	(38.0)	(37.2)	(37.0)	(36.5)	(36.2)	(35.9)	(35.8)	(35.9)	36.4	14 55	38.4	10 31	34.6	3.8	12
37.0	37.2	36.8	37.0	36.5	35.9	35.6	35.1	35.1	35.2	16 30	37.4	10 41	30.9	6.5	13
36.8	36.6	35.0	36.2	35.8	35.2	34.0	34.7	34.8	35.0	16 12	36.9	9 55	32.6	4.3	14
37.0	37.6	36.4	35.9	36.0	35.7	35.3	35.4	35.2	35.4	17 00	37.6	10 26	32.8	4.8	15
36.4	37.1	35.5	35.9	35.9	35.6	35.2	35.2	36.3	35.3	16 52	37.3	10 25	32.1	5.2	16
35.9	36.8	36.8	36.1	36.1	35.7	35.8	35.5	35.9	35.5	18 09	37.0	10 17	32.9	4.1	17
35.9	36.7	36.7	36.3	36.2	35.9	35.8	35.9	35.9	35.8	17 29	36.9	9 44	34.4	2.5	18
36.7	36.8	36.5	36.2	35.9	36.1	(35.7)	(35.8)	(35.9)	35.8	6 35	37.1	10 31	33.9	3.2	19
36.3	36.1	36.1	36.1	36.1	35.9	36.2	36.3	36.4	36.0	14 25	37.1	10 22	33.5	3.6	20
(37.3)	35.9	36.4	36.2	35.9	35.8	35.8	35.9	36.1	35.9	(15 00)	(37.5)	9 31	33.8	3.7	21
38.3	37.4	36.3	36.2	36.4	36.3	35.2	35.3	35.2	35.9	15 24	38.7	10 00	32.6	6.1	22
36.5	36.1	35.9	36.1	35.9	35.7	35.7	35.0	35.7	35.7	7 00	37.9	10 00	33.1	4.8	23
38.0	36.9	36.8	36.3	36.1	35.7	35.6	35.7	35.7	35.9	14 35	38.9	9 55	32.3	6.6	24
38.3	37.5	36.5	36.5	36.4	36.1	36.1	35.9	35.9	35.8	15 34	38.3	10 23	32.3	6.0	25
36.8	36.3	36.3	36.1	36.0	36.0	35.6	35.8	35.8	35.9	13 08	37.2	9 46	34.0	3.2	26
37.0	37.4	37.0	36.7	36.2	35.8	35.7	35.8	35.8	35.6	17 00	37.4	10 00	33.7	3.7	27
36.0	36.7	36.7	36.3	36.2	36.0	36.1	36.2	36.2	35.6	17 37	37.0	9 42	33.6	3.4	28
37.1	37.0	36.3	36.1	35.8	35.6	35.4	35.4	35.6	35.4					5.8	
37.0	37.0	36.5	36.3	35.9	35.7	35.6	35.7	35.8	35.5					5.6	

NOTE.—Values in parentheses were interpolated.

MARCH, 1905.

1° WEST PLUS TABULAR MINUTES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	36.2	36.2	36.0	35.8	35.6	35.7	35.5	34.0	33.7	34.8	36.3	37.9	37.9	37.8	36.9
2	35.5	34.5	35.0	35.4	33.1	35.0	36.6	36.0	35.5	32.1	37.3	36.7	35.8	38.1	37.5
3	35.5	36.0	35.4	34.9	34.8	34.9	34.3	34.4	34.0	33.9	34.4	35.5	36.0	36.6	36.6
4	36.8	35.5	35.6	35.1	34.6	35.1	35.5	34.3	33.8	34.3	35.6	37.0	37.2	37.5	37.5
5	35.7	36.3	35.8	35.6	35.4	35.6	35.6	33.8	32.7	33.9	35.1	37.4	38.4	38.6	38.4
6	36.0	36.0	36.6	36.2	35.7	35.4	34.4	32.7	31.4	31.5	33.1	34.2	36.1	37.6	37.8
7	36.9	36.7	36.3	38.1	37.5	37.4	34.8	33.7	35.1	33.7	33.9	35.2	36.7	37.5	37.9
8	36.2	36.1	35.9	36.5	36.8	36.1	34.7	32.5	31.1	31.9	33.5	35.9	37.9	38.5	38.1
9	36.5	36.2	36.0	36.1	35.7	35.7	34.5	32.6	31.5	32.3	33.7	35.9	37.1	(38.0)	(38.0)
10	(35.9)	(35.9)	(35.9)	(35.7)	(35.1)	(35.1)	(34.8)	(33.5)	(32.7)	(32.7)	33.5	35.9	37.8	38.6	38.6
11*	36.2	36.2	36.0	36.0	35.9	36.0	35.5	33.5	32.7	32.4	35.0	36.8	37.8	39.0	39.5
12*	36.2	36.0	35.6	35.5	35.6	35.5	35.6	33.8	33.8	34.4	34.9	35.9	36.9	38.5	39.5
13*	35.7	36.1	35.4	35.6	35.3	35.5	35.7	34.9	33.6	33.5	34.4	35.6	37.7	39.1	39.5
14	35.9	35.9	35.9	35.7	35.5	36.1	35.5	34.7	33.8	33.9	34.2	35.4	37.4	39.3	39.3
15	35.9	36.0	36.2	36.1	36.1	36.1	36.2	34.3	32.0	31.9	32.5	33.8	35.6	36.6	36.9
16	35.3	35.4	37.7	35.9	34.7	35.6	35.6	35.3	33.9	34.3	34.4	35.5	36.1	36.3	35.6
17	36.2	36.3	36.7	36.8	36.2	35.9	35.3	34.5	34.3	34.4	34.5	34.7	35.5	36.2	35.9
18*	36.5	36.4	36.5	36.1	35.8	35.8	34.6	33.4	33.0	33.8	35.2	36.7	37.2	37.4	37.0
19*	36.5	36.6	37.3	36.5	36.1	36.5	36.0	34.0	33.4	34.4	36.2	37.2	37.7	37.7	37.2
20*	36.4	36.4	36.2	36.1	35.8	35.4	34.4	33.2	33.1	34.0	34.9	35.8	37.3	39.0	39.2
21*	36.6	36.6	36.6	36.5	36.5	36.6	35.5	33.6	32.3	32.2	33.1	35.5	37.9	39.0	38.4
22	36.7	36.8	36.8	36.5	36.5	36.2	34.9	33.2	32.2	32.8	34.4	37.6	40.1	41.3	40.8
23*	36.7	36.7	36.7	36.5	36.1	36.2	35.9	34.6	32.5	32.3	34.4	37.7	40.1	40.9	40.3
24	36.8	37.1	36.7	36.4	36.1	35.9	34.6	32.4	31.6	32.6	35.3	37.3	38.8	39.7	39.4
25*	36.8	36.8	36.8	36.7	36.5	36.1	35.2	33.6	32.2	31.7	32.8	34.4	36.6	38.2	38.5
26	36.7	36.8	36.8	36.6	36.5	36.5	36.1	35.3	34.9	34.1	34.1	34.7	35.8	37.6	38.0
27	36.5	36.8	36.2	36.5	36.4	36.1	35.5	34.3	33.7	32.5	32.3	34.6	37.0	38.5	38.9
28	36.7	36.7	36.7	36.7	36.5	36.1	34.8	34.2	33.9	33.6	34.3	36.0	36.9	37.5	37.7
29*	36.6	36.4	36.3	36.1	36.1	36.0	35.3	33.9	33.0	33.0	34.2	35.2	37.3	38.1	38.3
30	36.7	36.7	36.5	36.4	36.0	35.7	34.2	34.0	34.8	35.1	35.8	35.8	36.1	36.9	37.6
31	36.5	36.4	36.4	36.1	36.0	36.0	35.5	35.5	36.0	36.4	36.5	37.2	38.3	39.1	38.8
Mean.....	36.3	36.3	36.3	36.2	35.8	35.9	35.2	34.0	33.3	33.4	34.5	36.0	37.3	38.2	38.2
Mean*.....	36.4	36.4	36.3	36.2	36.0	36.0	35.4	33.8	33.0	33.2	34.5	36.1	37.6	38.7	38.7

APRIL, 1905.

1° WEST PLUS TABULAR MINUTES.

1	36.9	35.7	35.4	36.6	35.4	35.2	35.4	32.1	34.5	32.3	35.7	36.6	37.1	38.4	40.0
2	...	...	...	...	...	...	...	...	...	...	...	...	37.6	38.7	38.4
3	35.5	35.5	35.8	36.7	36.4	36.1	34.8	34.0	33.6	34.0	35.2	36.6	37.9	38.8	38.3
4*	30.4	36.7	38.3	36.4	35.9	35.2	33.4	32.4	33.0	34.2	35.7	37.9	39.9	41.2	41.1
5*	36.4	36.1	36.1	35.7	35.7	36.0	34.8	32.1	32.1	33.1	35.7	37.8	39.7	40.8	41.1
6*	36.9	36.4	36.4	36.5	36.4	35.9	34.7	34.5	34.9	35.2	36.4	38.7	40.8	41.5	40.8
7	36.5	36.8	36.2	36.5	36.2	35.6	33.5	32.6	32.3	32.6	34.4	37.0	38.8	39.4	39.4
8	36.9	36.6	36.5	36.4	36.9	36.0	34.0	33.5	33.0	33.3	35.1	36.9	38.4	39.5	40.0
9	36.9	36.8	36.8	36.5	36.3	35.9	34.4	33.0	32.4	32.3	33.3	35.3	37.1	38.3	38.4
10*	36.8	36.6	36.5	36.6	36.3	35.6	33.4	32.7	32.7	33.2	35.0	37.4	39.4	40.8	40.8
11*	36.5	36.5	36.4	36.5	36.5	36.0	34.5	33.6	33.6	32.7	33.6	36.4	38.2	39.6	40.4
12*	36.3	36.5	36.3	36.5	36.6	36.5	35.1	34.6	35.3	35.4	36.0	37.1	38.0	39.4	39.9
13	35.8	36.0	35.9	36.3	36.3	36.0	34.4	33.6	33.9	34.4	35.3	36.8	38.3	38.7	38.7
14	36.9	36.8	36.6	36.6	36.4	35.8	34.6	34.1	34.2	35.1	36.3	37.8	39.9	40.8	40.6
15	36.5	36.8	36.8	36.6	37.1	35.8	33.5	32.9	32.8	32.9	34.7	36.5	38.0	38.9	38.9
16	37.1	37.0	36.8	36.2	36.3	36.0	35.2	35.2	35.9	35.9	35.6	35.9	36.2	36.5	36.5
17	36.8	36.8	36.7	36.5	...	...	...	...	...	...	...	...	...	...	...
18	37.1	36.9	36.9	36.7	36.2	35.6	34.9	35.6	36.7	37.6	37.5	37.4	37.4	37.6	37.0
19	37.4	37.5	...	...	...	...	...	36.4	36.9	37.3	37.9	38.6	39.5	40.5	40.5
20*	36.9	36.7	36.4	36.4	36.4	36.1	34.9	34.1	33.9	34.4	35.9	38.2	39.4	39.8	39.5
21	35.7	36.9	36.8	36.7	36.5	36.5	35.5	34.5	34.6	35.6	36.4	38.6	40.3	40.3	39.8
22*	37.3	37.4	37.1	37.0	36.7	36.3	35.0	34.3	33.8	34.6	35.9	37.6	39.5	40.3	40.0
23*	37.1	37.1	37.3	37.0	36.9	36.7	36.5	36.1	35.5	35.3	35.0	35.8	37.0	37.6	38.1
24	36.9	36.9	36.8	36.9	36.7	36.4	35.9	36.2	35.7	35.6	35.7	36.4	37.7	38.8	39.1
25	36.8	36.5	36.3	36.2	36.1	35.7	34.9	35.8	35.9	35.7	35.7	36.5	37.9	39.1	39.3
26	35.7	35.3	35.2	35.7	36.3	36.2	36.3	36.3	35.9	35.7	35.6	35.9	37.9	39.9	40.3
27	36.2	36.1	36.2	36.2	35.8	35.4	35.2	35.8	35.7	35.8	36.4	37.0	37.5	37.8	37.5
28	36.6	36.4	36.2	36.1	36.0	35.8	35.6	36.7	37.2	37.4	38.2	39.3	39.8	39.8	39.0
29*	36.8	36.6	36.3	36.1	35.7	35.1	34.2	34.4	35.7	37.3	38.7	39.6	40.5	40.9	40.4
30	37.0	36.8	36.6	36.3	36.1	35.4	34.0	34.6	35.1	36.1	36.9	38.0	38.7	38.8	39.1
Mean.....	36.6	36.6	36.5	36.4	36.3	35.9	34.7	34.4	34.4	34.8	35.8	37.2	38.6	39.4	39.4
Mean*.....	36.7	36.7	36.7	36.5	36.3	35.9	34.6	33.9	34.0	34.5	35.8	37.6	39.2	40.2	40.2

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF DECLINATION.

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MARCH, 1905.

1° WEST PLUS TABULAR MINUTES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
/	/	/	/	/	/	/	/	/	/	<i>h</i>	<i>m</i>	/	<i>h</i>	<i>m</i>	/	/	
35.8	35.6	36.3	36.3	36.2	35.8	34.0	35.1	35.4	35.9	12	11	38.2	8 41	33.4	4.8	1	
37.9	36.8	36.8	36.3	35.7	36.0	35.7	35.8	35.7	35.9	10	40	38.7	9 23	29.7	9.0	2	
36.7	36.4	36.7	36.0	36.4	36.0	36.0	35.5	35.5	35.5	14	53	36.8	9 14	33.8	3.0	3	
37.0	36.9	36.7	36.7	36.4	36.2	36.0	36.1	36.2	36.0	14	33	37.8	9 12	33.6	4.2	4	
37.2	36.9	37.0	36.7	35.6	35.8	36.2	36.2	36.0	36.1	14	09	38.7	8 34	32.0	6.7	5	
37.5	37.2	37.0	36.9	36.2	35.5	36.2	36.1	34.4	35.5	14	52	38.0	9 23	31.2	6.8	6	
37.3	36.8	36.8	36.9	36.8	36.7	36.6	36.8	36.3	36.4	15	36	38.2	10 32	33.1	5.1	7	
38.3	37.8	37.3	37.1	35.9	35.9	35.5	35.7	36.0	35.9	14	03	38.5	8 35	30.3	8.2	8	
(37.4)	(36.8)	(36.6)	(36.3)	(36.2)	(35.9)	(35.9)	(35.9)	(35.9)	35.7	(15 00)	(38.0)	9 00	31.5	6.5	9		
38.1	37.7	37.2	36.9	36.6	36.3	36.2	36.2	36.2	36.0	14	02	38.7	9 00	32.7	6.0	10	
38.6	37.7	37.2	36.9	36.6	36.2	36.1	36.2	36.2	36.3	15	00	39.5	9 25	32.1	7.4	11	
38.6	37.7	36.9	36.6	36.2	35.9	36.0	36.0	36.1	36.2	15	00	39.5	8 45	33.5	6.0	12	
38.7	37.8	36.8	36.9	36.6	36.2	36.1	36.0	35.9	36.2	14	37	39.6	9 40	33.2	6.4	13	
38.6	37.3	37.1	37.4	37.3	36.7	35.6	35.4	35.7	36.2	14	00	39.3	9 32	33.5	5.8	14	
37.4	35.9	36.9	36.1	36.7	36.3	36.1	35.7	35.4	35.5	18	42	37.5	9 24	31.8	5.7	15	
35.7	36.1	36.8	36.9	36.8	36.6	35.9	36.1	36.2	35.8	3	00	37.7	9 42	33.8	3.9	16	
35.5	35.9	36.7	36.7	36.6	36.5	36.5	36.3	36.5	35.9	4	14	36.9	9 00	34.3	2.6	17	
36.4	36.2	36.7	36.8	36.6	36.4	36.5	36.5	36.6	36.0	14	00	37.4	8 46	32.9	4.5	18	
36.4	36.1	36.2	36.4	36.4	36.2	36.2	36.2	36.2	36.2	13	25	37.9	9 00	33.4	4.5	19	
38.0	37.2	36.5	36.4	36.2	35.6	36.1	36.5	36.7	36.1	14	46	39.2	9 00	33.1	6.1	20	
37.3	36.4	36.4	36.4	36.4	36.4	36.5	36.5	36.7	36.1	14	00	39.0	9 29	31.9	7.1	21	
38.9	37.4	36.5	36.4	36.4	35.8	36.1	36.5	36.8	36.6	14	00	41.3	9 21	32.0	9.3	22	
38.5	37.3	36.7	36.5	36.5	36.5	36.5	36.7	36.8	36.6	14	00	40.9	9 43	32.2	8.7	23	
38.3	37.0	36.5	36.5	36.5	36.1	36.5	36.7	36.8	36.3	14	00	39.7	9 00	31.6	8.1	24	
38.0	37.4	37.0	36.8	36.8	36.8	36.6	36.7	36.8	36.1	15	00	38.5	10 00	31.7	6.8	25	
37.6	37.0	36.8	36.5	35.8	36.4	36.4	36.5	36.7	36.3	15	00	38.0	10 00	34.1	3.9	26	
38.3	37.2	36.4	36.5	36.7	36.5	36.5	36.7	36.8	36.1	14	53	39.0	10 32	32.0	7.0	27	
37.7	37.6	37.3	37.0	36.7	36.7	36.7	36.7	36.6	36.3	16	00	37.7	10 00	33.6	4.1	28	
38.3	37.9	37.3	36.9	36.9	36.9	36.7	36.7	36.7	36.3	15	00	38.3	10 00	33.0	5.3	29	
38.3	37.8	37.1	36.4	36.0	35.2	36.4	36.5	36.4	36.2	16	00	38.3	7 52	34.0	4.3	30	
38.1	37.2	37.2	37.3	37.2	36.9	38.8	36.7	36.7	36.9	14	00	39.1	21 24	33.4	5.7	31	
37.6	37.0	36.8	36.7	36.4	36.2	36.2	36.2	36.2	36.1						5.9		
37.9	37.2	36.8	36.7	36.5	36.3	36.3	36.4	36.5	36.2						6.3		

APRIL, 1905.

1° WEST PLUS TABULAR MINUTES.

40.2	---	---	---	---	---	---	---	---	---	15 55	40.3	9 15	29.9	10.4	1
37.7	37.2	36.0	35.1	35.3	36.3	36.4	35.7	35.9	---	14 41	38.8	---	---	---	2
37.7	36.7	36.4	36.4	36.1	36.7	36.7	36.6	36.0	36.2	14 28	39.0	8 15	33.1	5.9	3
39.7	37.8	37.1	37.1	36.9	36.7	36.6	36.4	36.5	36.8	14 27	41.5	8 00	32.4	9.1	4
39.4	37.7	37.6	37.6	37.1	36.1	35.7	36.5	36.6	36.6	14 30	41.3	9 15	31.7	9.6	5
39.6	37.5	36.7	37.0	36.7	36.9	36.5	36.5	36.7	37.1	14 29	41.7	7 48	34.1	7.6	6
39.2	37.7	36.8	36.9	37.0	37.0	36.8	36.6	36.6	36.4	14 21	39.5	8 50	32.1	7.4	7
39.3	37.4	37.4	37.2	37.0	36.9	36.8	36.9	36.9	36.6	15 00	40.0	8 51	32.9	7.1	8
37.7	37.2	37.1	37.2	36.8	37.0	36.8	36.8	36.9	36.1	14 35	38.6	9 28	32.2	6.4	9
39.5	37.8	36.9	37.0	37.2	37.0	36.9	36.8	36.6	36.6	14 37	41.2	7 50	32.4	8.8	10
39.4	38.7	37.5	37.4	37.2	36.8	36.5	36.5	36.5	36.6	15 07	40.4	10 00	32.7	7.7	11
40.1	38.9	37.7	36.8	37.0	37.1	36.9	36.8	36.3	37.0	14 28	40.2	7 55	34.6	5.6	12
37.8	37.5	37.6	37.2	37.2	37.0	37.1	36.8	37.0	36.5	15 00	38.7	8 00	33.6	5.1	13
39.5	38.0	37.5	37.5	37.5	37.2	37.0	35.3	36.3	37.0	14 20	41.1	7 46	33.9	7.2	14
38.2	37.4	37.1	37.1	37.1	37.4	37.1	37.1	37.0	36.4	14 39	39.0	8 30	32.6	6.4	15
36.5	36.8	37.1	37.1	37.2	37.4	37.2	37.2	37.1	36.5	21 00	37.4	7 49	35.1	2.3	16
38.3	38.3	37.9	37.4	37.5	37.5	37.5	37.4	37.3	---	---	---	---	---	---	17
36.4	36.2	36.8	37.1	37.1	37.4	37.4	37.4	37.4	36.8	10 12	37.7	6 46	34.6	3.1	18
38.8	37.5	36.9	36.9	36.9	37.1	37.1	37.4	37.3	---	14 28	41.0	---	---	---	19
38.3	37.5	37.4	37.3	37.1	37.3	37.1	37.3	36.4	36.9	14 00	39.8	8 48	33.8	6.0	20
38.6	37.6	37.1	37.1	37.1	37.1	37.1	37.0	37.3	37.1	13 44	40.6	8 29	34.4	6.2	21
38.6	37.6	37.1	36.8	36.5	37.0	37.0	37.1	37.0	37.0	14 33	40.5	9 00	33.8	6.7	22
37.7	37.4	37.3	37.1	37.1	37.1	37.1	37.0	36.9	36.8	15 00	38.1	11 00	35.0	3.1	23
38.6	38.0	37.5	37.4	37.3	37.1	36.9	36.9	36.9	37.0	14 46	39.3	10 00	35.6	3.7	24
38.6	37.5	37.4	37.6	37.5	37.3	37.0	36.9	35.0	36.8	15 00	39.3	7 00	34.9	4.4	25
39.3	38.1	37.5	37.6	37.5	37.4	37.4	37.0	36.7	36.9	14 45	40.4	0 14	34.5	5.9	26
37.2	36.8	37.0	37.3	37.3	37.2	37.0	36.8	36.8	36.6	14 00	37.8	7 00	35.2	2.6	27
37.9	37.8	38.0	37.8	37.3	37.6	37.4	37.2	36.8	37.4	14 00	39.8	7 00	35.6	4.2	28
38.2	37.3	37.3	37.2	36.4	36.7	37.0	37.2	37.2	37.2	14 28	41.4	7 34	34.0	7.4	29
38.7	37.8	37.3	37.3	35.1	36.6	36.8	36.8	36.7	36.8	15 00	39.1	7 30	33.7	5.4	30
38.5	37.6	37.2	37.2	37.0	37.0	36.9	36.8	36.7	36.8					6.1	
39.0	37.8	37.3	37.1	36.9	36.9	36.7	36.8	36.7	36.8					7.2	

NOTE.—Values in parentheses were interpolated.

MAY, 1905.

1° WEST PLUS TABULAR MINUTES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	36.6	36.3	36.4	36.6	36.1	35.0	33.6	33.8	34.5	36.1	37.8	39.8	41.4	42.0	40.9
2	37.2	36.4	37.3	36.8	36.4	35.4	33.9	33.4	34.2	35.8	37.5	38.5	40.0	40.6	40.4
3*	37.3	37.3	37.0	36.8	36.8	36.3	34.6	33.7	33.4	34.4	35.8	37.9	39.9	41.1	40.6
4*	37.3	37.0	36.9	36.8	36.6	35.7	34.4	33.2	33.7	35.4	36.9	38.5	39.9	40.2	39.0
5	37.2	37.0	36.9	36.8	36.8	35.7	33.7	33.1	33.8	36.2	37.8	39.2	39.8	39.8	39.2
6*	37.4	37.3	37.3	37.3	36.8	35.4	34.2	34.2	34.2	36.0	37.8	39.2	40.5	41.6	41.2
7*	37.1	36.8	36.7	36.3	36.1	35.5	33.7	33.2	34.8	38.3	39.9	41.4	42.0	41.9	40.8
8	36.8	36.5	36.5	36.2	36.1	35.3	34.4	34.1	34.5	34.7	34.8	36.0	37.4	38.5	39.1
9	37.3	37.2	37.1	37.1	36.7	36.0	35.3	34.9	35.5	36.5	36.8	37.5	38.0	38.4	38.9
10	37.4	37.3	37.2	37.4	37.2	36.2	35.3	34.8	34.9	35.1	35.3	35.6	36.5	38.3	39.8
11	37.3	37.3	37.3	37.3	37.2	37.3	36.3	36.3	36.6	37.1	37.2	37.7	38.3	38.0	37.7
12	37.2	36.9	36.9	36.9	36.8	36.5	35.3	34.7	35.3	36.8	37.8	37.9	37.9	38.0	37.7
13	37.2	37.1	37.1	36.8	36.8	36.3	35.3	36.6	36.2	37.2	38.4	38.0	38.4	38.7	38.9
14	37.2	37.2	37.2	36.9	36.9	36.2	34.7	34.8	36.5	37.9	38.6	38.1	38.4	38.7	38.9
15*	37.3	37.2	36.9	36.8	36.7	36.2	35.5	35.7	36.2	37.7	38.0	37.7	38.4	38.9	38.9
16*	37.5	37.4	37.2	36.9	36.7	35.3	33.8	34.8	36.9	39.6	40.7	40.9	41.0	40.4	39.5
17	37.1	37.3	37.3	37.1	36.4	35.4	34.1	34.6	36.1	38.0	40.0	40.3	40.7	39.8	38.5
18	37.6	37.2	37.0	36.7	36.4	34.4	31.8	31.0	34.0	36.6	38.2	40.0	41.4	41.3	40.7
19	37.4	37.4	37.1	36.7	36.7	35.4	32.6	31.6	32.3	33.8	36.6	39.2	40.2	40.3	39.8
20*	37.9	37.7	37.6	37.0	36.2	35.4	33.7	33.0	34.2	35.2	37.0	38.9	40.2	40.2	39.8
21*	37.8	37.8	37.8	37.4	37.1	35.9	34.3	33.8	34.6	35.0	35.4	36.8	39.5	40.6	40.7
22*	37.8	37.7	37.6	37.2	36.7	35.5	33.5	32.3	33.0	34.8	37.0	38.6	39.6	40.3	40.2
23	37.4	37.2	37.1	36.5	36.1	35.2	34.2	33.5	33.5	33.5	34.3	35.4	36.5	38.0	39.1
24	37.7	37.4	37.6	37.6	37.4	37.0	36.7	36.2	36.5	37.6	37.9	38.3	38.2	38.3	38.3
25	37.0	36.7	36.0	36.2	36.6	35.9	35.5	35.4	35.9	37.0	38.0	38.6	38.6	38.4	38.8
26*	37.4	37.3	37.2	37.0	36.7	35.8	34.7	34.7	36.4	38.4	38.8	38.9	38.8	38.9	38.8
27	37.1	36.7	37.0	35.8	35.4	34.3	33.9	33.9	35.1	37.2	37.9	38.2	38.5	39.6	40.5
28	38.2	37.5	37.2	37.0	36.6	35.5	33.6	34.5	35.8	37.3	38.3	38.8	38.7	38.9	39.4
29	37.5	37.2	36.9	36.6	36.0	35.8	34.5	34.5	35.2	37.0	37.5	38.5	39.1	39.9	39.4
30	37.6	37.3	37.3	37.0	36.6	35.8	34.2	34.9	37.7	39.4	39.7	39.9	39.7	39.7	39.6
31	37.3	37.3	37.0	36.9	36.6	35.5	34.6	34.6	36.6	37.6	37.1	37.8	39.0	39.7	39.5
Mean.....	37.4	37.2	37.1	36.8	36.6	35.7	34.4	34.2	35.1	36.6	37.6	38.4	39.2	39.6	39.5
Mean*.....	37.5	37.4	37.2	37.0	36.6	35.7	34.2	33.9	34.7	36.5	37.7	38.9	40.0	40.4	40.0

JUNE, 1905.

1° WEST PLUS TABULAR MINUTES.

1	37.5	37.5	38.2	37.1	37.0	†....	32.5	33.1	35.1	37.0	38.2	39.3	39.8	39.4	38.6
2*	37.0	37.0	36.4	36.4	36.3	34.0	32.4	31.4	31.2	33.0	34.1	36.1	38.1	39.2	39.2
3	37.0	36.8	36.4	36.5	36.3	34.3	34.5	32.5	32.0	32.6	33.9	36.2	39.3	40.7	40.3
4	38.1	38.1	38.1	38.0	37.7	37.0	37.5	34.6	34.1	35.2	37.0	38.0	38.5	38.6	38.1
5	37.5	38.2	37.6	38.8	39.0	38.3	34.2	33.0	34.9	36.9	38.5	40.1	41.5	40.6	40.3
6	38.0	38.0	37.9	37.9	37.2	36.1	34.7	34.0	33.9	34.5	36.0	37.8	39.0	39.9	39.9
7*	38.1	38.0	38.5	37.9	37.2	35.9	34.0	33.6	33.8	35.1	35.9	37.6	39.1	41.0	42.9
8	38.0	38.0	38.0	37.6	37.2	36.2	35.0	34.0	35.0	35.4	38.3	40.2	40.0	40.6	41.3
9	38.2	38.2	37.9	37.2	36.9	35.6	39.1	38.1	37.7	36.2	35.3	36.2	37.3	38.1	38.8
10	38.0	37.5	37.3	37.9	38.1	39.1	36.7	34.4	34.1	34.9	35.2	36.2	37.1	38.0	39.0
11*	37.4	38.0	37.5	38.1	38.0	36.7	36.2	37.2	38.5	38.5	38.7	38.9	38.8	38.9	39.0
12	38.6	39.0	38.9	38.4	37.8	37.0	34.7	34.5	36.2	37.7	38.1	38.9	39.2	39.5	39.9
13	38.2	38.1	38.1	38.1	37.6	36.3	35.2	34.6	35.9	37.1	38.2	39.1	39.2	40.0	39.9
14*	38.6	38.5	38.3	39.0	38.2	36.8	35.9	35.4	36.5	38.2	39.2	39.9	39.1	38.5	37.7
15*	38.4	38.5	38.9	38.2	37.9	37.1	34.3	34.7	37.2	39.0	40.0	41.6	41.9	41.2	40.3
16	39.2	38.0	38.0	37.4	37.1	35.7	34.4	34.2	35.1	36.0	37.7	39.3	40.0	40.1	40.0
17	38.6	38.6	38.6	38.6	38.0	36.2	34.0	33.3	35.3	37.7	39.3	41.1	41.5	40.4	39.2
18*	38.6	38.3	38.0	38.0	37.3	35.8	34.8	34.2	35.9	37.2	38.2	38.9	39.6	40.0	39.9
19*	38.4	38.1	38.1	38.0	37.8	36.2	34.4	34.9	37.0	39.0	39.2	40.1	41.6	41.6	40.6
20	38.2	38.2	38.0	38.0	37.6	36.8	34.4	33.3	34.4	36.3	38.0	38.9	39.4	39.9	40.3
21	38.0	37.9	37.6	37.0	36.7	35.6	34.7	34.6	35.7	36.4	38.2	39.4	40.7	41.6	41.9
22	38.4	38.5	37.6	39.7	37.7	37.4	38.0	38.4	35.1	35.7	36.6	37.7	39.4	39.0	38.7
23	38.5	37.4	36.6	34.5	36.3	38.9	34.9	34.7	35.5	36.9	38.3	38.6	39.4	39.5	39.5
24	38.7	38.5	38.3	37.7	37.3	36.4	35.5	36.3	37.5	39.0	39.5	39.0	39.0	39.3	39.2
25	38.2	38.1	37.6	37.5	37.2	36.4	34.8	34.5	35.4	36.3	37.5	39.2	39.6	40.0	40.2
26*	38.3	38.2	38.1	37.7	37.2	36.3	36.4	37.2	37.5	38.5	39.2	40.3	40.4	40.2	39.5
27	38.4	38.3	38.4	37.9	38.2	38.6	34.8	34.3	34.8	36.3	37.9	38.5	39.0	38.5	39.2
28*	38.3	38.0	37.7	37.4	37.3	36.1	34.7	34.2	36.3	37.2	37.4	39.2	39.4	40.5	41.4
29*	38.4	38.2	38.2	37.7	37.4	36.2	35.2	34.8	35.3	35.5	36.4	36.8	38.2	39.5	40.1
30	38.6	38.3	38.3	38.0	38.3	36.5	35.1	34.6	35.4	36.5	37.6	38.7	39.5	39.8	39.8
Mean.....	38.2	38.1	37.9	37.8	37.5	36.5	34.8	34.2	35.3	36.6	37.7	38.9	39.3	39.5	39.5
Mean*.....	38.2	38.1	38.0	37.8	37.5	36.1	34.8	34.2	35.3	36.6	37.7	38.9	39.3	39.5	39.5

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

† Moved the Eschenhagen magnetograph to the center of the room.

HOURLY VALUES OF DECLINATION.

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MAY, 1905.

1° WEST PLUS TABULAR MINUTES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
										<i>h</i>	<i>m</i>		<i>h</i>	<i>m</i>			
39.3	37.8	37.3	37.3	36.3	36.8	36.8	36.3	36.8	37.2	14	00	42.0	7	24	33.3	8.7	1
39.1	38.0	37.3	36.9	37.3	37.4	37.4	37.3	37.3	37.2	14	06	40.8	7	54	33.2	7.6	2
39.3	37.8	37.3	36.6	36.8	37.3	37.2	37.3	37.3	37.1	14	15	41.2	8	45	33.2	8.0	3
37.3	36.1	36.3	37.0	37.3	37.4	37.3	37.0	37.4	36.9	13	45	40.2	8	00	33.2	7.0	4
38.0	37.3	36.9	37.3	37.3	37.3	37.4	37.4	37.5	37.1	13	15	39.9	8	00	33.1	6.8	5
39.8	38.1	37.3	37.6	37.6	37.5	37.4	37.4	37.3	37.5	14	00	41.6	7	27	33.8	7.8	6
39.5	38.0	37.2	37.2	37.2	36.9	36.9	37.2	37.2	37.6	13	16	42.2	7	36	33.0	9.2	7
38.9	38.0	37.7	37.7	37.3	37.3	37.2	37.2	37.3	36.6	15	48	39.2	7	44	33.8	5.4	8
38.9	38.1	37.7	37.2	36.9	37.1	37.1	37.2	37.2	37.1	15	38	39.0	8	26	34.8	4.2	9
39.8	38.7	38.4	38.6	37.8	37.8	37.5	37.4	37.3	37.2	15	41	40.1	8	00	34.8	5.3	10
37.1	36.9	37.4	37.7	37.7	37.7	37.1	36.9	37.1	37.3	13	00	38.3	7	44	36.0	2.3	11
37.9	38.1	38.3	38.0	38.1	37.9	37.5	37.4	37.2	37.2	18	00	38.3	8	00	34.7	3.6	12
38.4	37.9	38.0	38.0	38.0	37.9	37.7	37.3	37.4	37.5	14	40	39.0	7	00	35.3	3.7	13
38.9	38.6	38.3	38.0	37.9	37.8	37.7	37.5	37.4	37.5	15	32	39.1	7	33	34.5	4.6	14
38.3	37.5	37.8	38.1	38.0	37.9	37.7	37.5	37.5	37.4	15	00	38.9	7	00	35.5	3.4	15
38.0	37.2	37.5	37.7	37.7	37.5	37.5	37.5	37.4	37.8	13	00	41.0	7	00	33.8	7.2	16
37.4	37.1	37.3	37.6	37.7	37.9	37.7	37.7	37.8	37.5	12	50	40.8	7	23	33.8	7.0	17
38.6	37.2	36.5	37.1	36.8	34.8	36.4	37.3	37.4	36.9	13	19	41.5	7	54	30.8	10.7	18
39.1	37.9	36.8	37.0	37.3	37.4	37.4	37.6	37.7	36.9	13	46	40.6	8	00	31.6	9.0	19
38.6	37.7	37.1	37.2	37.2	37.6	37.6	37.8	37.8	37.2	13	19	40.3	7	46	32.9	7.4	20
39.5	38.3	37.6	37.8	37.8	37.8	37.9	37.7	37.7	37.4	14	47	40.7	7	48	33.6	7.1	21
39.1	38.0	37.4	37.7	37.9	37.8	37.7	37.6	37.4	37.2	13	57	40.4	8	00	32.3	8.1	22
39.5	38.5	37.9	37.8	37.6	37.3	37.6	37.7	37.7	36.6	15	43	39.6	8	13	33.2	6.4	23
38.3	38.3	38.3	37.9	37.7	37.8	37.8	37.4	37.4	37.6	15	45	38.6	8	31	36.0	2.6	24
38.4	38.3	38.3	38.3	38.0	37.9	37.8	37.8	37.4	37.4	12	31	38.9	7	46	35.2	3.7	25
38.4	38.0	38.0	37.9	38.6	38.5	37.8	37.1	37.2	37.6	14	30	39.1	7	40	34.6	4.5	26
38.7	38.3	38.4	38.2	38.3	38.4	38.2	38.2	38.3	37.3	15	09	40.6	7	00	33.9	6.7	27
39.1	38.9	38.2	38.3	38.1	37.8	37.5	37.7	37.3	37.5	15	00	39.4	7	00	33.6	5.8	28
38.4	37.8	37.8	38.1	37.8	37.7	37.6	37.7	38.1	37.4	14	00	39.9	7	42	33.3	6.6	29
39.4	38.9	37.8	37.6	37.6	37.6	38.2	37.9	37.5	37.9	12	00	39.9	7	00	34.2	5.7	30
38.7	37.9	37.7	37.8	38.2	38.2	37.7	37.7	37.5	37.4	14	00	39.7	7	31	34.3	5.4	31
38.7	37.9	37.6	37.6	37.6	37.6	37.5	37.4	37.4	37.3							6.2	
38.8	37.7	37.4	37.5	37.6	37.6	37.5	37.4	37.4	37.4							7.0	

JUNE, 1905.

1° WEST PLUS TABULAR MINUTES.

.....	37.3	37.6	37.9	37.7	37.6	37.5	37.1	37.0	.....	<i>h</i>	<i>m</i>		<i>h</i>	<i>m</i>			
38.3	38.0	37.6	37.9	37.9	37.3	37.1	37.1	37.0	37.0	12	50	40.0	7	00	32.5	7.5	1
38.8	38.7	38.3	38.6	38.6	38.3	38.3	38.2	38.1	36.6	14	00	39.2	8	35	30.5	8.7	2
40.2	39.1	38.0	38.0	38.2	38.2	38.0	36.8	37.1	37.2	14	00	40.7	9	00	32.0	8.7	3
38.1	38.5	38.2	38.2	38.2	38.1	38.0	38.0	38.0	37.7	4	18	40.1	8	39	33.9	6.2	4
40.6	40.0	39.2	39.6	39.2	39.1	38.3	38.2	38.1	38.2	13	00	41.5	8	00	33.0	8.5	5
39.7	39.5	39.0	38.6	38.7	38.4	38.4	38.3	37.9	37.7	15	00	39.9	9	00	33.9	6.0	6
44.5	40.1	38.9	38.1	39.0	38.6	38.7	38.8	38.4	38.0	16	20	45.2	8	00	33.6	11.6	7
41.7	41.6	41.1	40.3	40.0	39.4	38.6	38.2	38.2	38.5	12	05	42.0	8	00	34.0	8.0	8
39.1	39.3	39.4	39.1	38.9	38.6	38.7	38.2	38.2	38.1	5	39	40.3	10	46	35.0	5.3	9
38.9	38.6	38.6	39.0	39.3	39.1	38.7	38.4	38.5	37.5	15	00	39.0	8	56	34.1	4.9	10
38.5	38.8	38.5	38.2	38.2	38.3	38.5	38.3	38.2	38.3	15	00	39.0	7	00	36.0	3.0	11
40.0	39.8	39.0	39.0	38.8	38.7	38.8	38.9	38.9	38.2	16	00	40.0	7	43	34.2	5.8	12
39.5	39.5	38.9	38.9	38.9	38.9	38.9	38.8	38.7	38.3	14	00	40.0	8	00	34.6	5.4	13
37.2	37.9	38.0	38.3	38.3	38.2	38.3	38.9	38.6	38.0	11	41	40.2	8	00	35.4	4.8	14
40.0	39.0	38.4	38.9	38.9	38.9	38.0	38.1	38.9	38.5	13	00	41.9	7	25	34.1	7.8	15
37.0	38.1	38.7	38.7	38.7	38.7	38.7	38.7	38.6	38.1	14	00	40.1	7	28	33.9	6.2	16
39.2	39.0	38.9	38.9	38.9	38.9	38.9	38.7	38.6	38.2	12	49	41.7	7	41	33.1	8.6	17
39.9	39.2	38.9	38.8	38.6	38.6	38.6	38.3	38.1	38.1	14	00	40.0	7	39	34.1	5.9	18
39.3	38.6	38.3	38.6	38.6	38.7	38.5	38.3	38.0	38.4	13	28	41.9	7	07	34.2	7.7	19
39.4	39.4	39.5	39.0	39.0	38.7	38.7	38.8	38.5	37.9	15	00	40.3	8	00	33.8	7.0	20
41.7	41.5	39.5	39.5	37.3	38.1	37.6	37.6	37.6	38.5	15	00	41.9	8	00	34.6	7.3	21
38.4	38.8	38.2	39.0	38.8	38.4	38.5	38.2	38.0	37.8	13	22	39.6	4	00	34.5	5.1	22
36.6	38.6	38.5	38.9	39.4	38.9	38.4	38.3	38.3	37.9	14	28	39.6	8	00	34.7	4.9	23
39.2	38.6	38.5	38.9	38.9	38.2	37.8	38.3	38.4	38.2	11	00	39.5	7	00	35.5	4.0	24
40.1	39.7	39.5	39.5	39.5	39.0	38.5	38.4	38.5	38.2	15	00	40.2	7	34	34.1	6.1	25
39.4	39.3	39.3	39.2	39.2	37.5	38.5	38.4	38.3	38.7	13	00	40.4	7	30	36.3	4.1	26
38.5	38.4	38.4	38.5	38.7	38.8	38.8	38.6	38.5	37.7	15	00	39.2	8	00	34.3	4.9	27
41.4	40.9	39.8	39.3	39.1	38.9	38.3	38.4	38.4	38.4	15	43	41.6	7	34	33.5	8.1	28
40.1	40.3	39.4	39.3	39.2	39.1	37.4	37.9	38.6	38.0	17	00	40.3	8	00	35.2	5.1	29
39.6	39.3	38.8	38.9	38.8	38.6	38.4	38.3	38.2	38.0							6.5	
39.3	39.1	38.8	38.8	38.8	38.6	38.4	38.4	38.3	37.9							6.2	

JULY, 1905.

1° WEST PLUS TABULAR MINUTES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	38.6	38.6	38.4	38.2	37.7	36.6	34.4	34.6	35.8	37.1	38.5	39.4	40.2	40.7	40.4
2*	39.1	39.0	38.6	38.5	37.7	36.4	34.6	34.3	35.4	37.0	38.7	41.3	42.0	41.9	41.0
3	38.6	38.6	38.5	38.4	38.2	36.7	35.3	34.7	35.9	37.3	37.7	37.5	37.9	38.6	39.3
4	39.0	38.7	38.7	38.6	37.8	36.7	34.6	33.8	34.9	36.2	38.0	39.9	41.2	41.9	41.2
5	38.7	38.7	38.5	38.2	37.9	36.4	35.1	34.5	36.1	38.5	39.9	40.1	39.9	39.9	39.9
6	37.8	38.0	37.5	37.1	36.0	34.4	33.8	32.6	33.6	34.9	37.1	38.7	39.6	40.6	41.6
7	39.2	38.8	38.6	39.5	38.6	36.9	35.4	34.5	34.8	36.0	37.9	38.1	38.9	39.4	39.9
8	38.8	38.7	38.6	38.8	39.6	37.9	36.6	36.0	36.6	36.4	36.8	37.6	38.0	39.6	41.0
9	38.4	38.7	39.0	38.7	38.4	37.6	36.0	35.6	36.1	36.6	37.0	38.1	38.6	39.6	39.9
10*	38.9	38.9	39.2	38.7	38.3	37.7	36.7	35.8	35.9	36.6	37.7	38.7	39.3	39.9	39.7
11*	39.3	39.3	39.4	39.3	38.8	37.5	36.5	36.5	37.0	38.4	39.2	39.9	40.1	41.0	41.0
12*	39.3	39.4	39.6	38.9	38.7	37.5	35.5	35.5	36.9	38.3	39.2	39.6	40.9	40.9	40.5
13	39.2	39.7	38.9	39.3	38.3	36.0	33.7	33.3	36.0	37.7	39.1	40.8	40.9	40.9	40.9
14	39.7	39.9	39.1	39.8	38.5	36.4	34.7	33.9	35.4	37.1	39.4	39.8	40.5	40.1	39.8
15	39.4	39.4	39.3	39.0	38.4	37.2	35.1	34.2	35.8	36.8	38.4	39.7	40.9	41.0	40.8
16	39.2	39.2	38.9	38.8	38.7	37.5	36.6	36.9	38.2	38.8	38.9	38.8	39.4	39.8	39.9
17*	38.8	38.7	38.5	38.3	37.6	36.0	33.9	34.9	37.4	39.0	40.1	41.7	41.4	41.8	41.8
18*	38.8	38.8	38.8	38.0	37.7	36.4	34.5	34.7	35.9	37.0	38.1	38.7	40.0	41.5	42.0
19*	38.2	38.1	38.3	38.4	37.9	36.8	35.0	34.8	35.9	37.0	38.6	39.3	39.8	39.9	41.1
20*	38.7	38.7	38.8	38.7	38.4	37.3	35.3	34.8	36.1	37.0	38.1	39.4	40.0	40.8	40.8
21	38.3	38.3	38.3	38.1	37.8	37.1	35.6	34.6	35.9	35.7	36.6	37.8	38.9	39.9	40.2
22	39.3	39.2	39.0	38.9	38.6	37.0	35.4	34.8	35.7	37.8	39.8	40.9	41.5	42.7	42.8
23	38.9	38.9	38.4	38.9	37.4	36.3	35.3	34.0	34.7	37.0	39.7	41.0	41.9	42.5	41.9
24	38.8	39.6	41.4	38.7	40.0	38.1	36.8	34.9	36.8	38.7	38.9	40.0	40.8	41.0	40.8
25	38.7	38.8	39.0	38.7	38.4	37.7	36.1	35.9	36.9	38.5	39.0	38.9	39.7	40.2	39.9
26	38.5	38.6	38.4	38.2	37.9	36.8	35.9	36.6	37.8	37.7	37.8	38.6	39.7	39.9	40.0
27	39.9	39.9	39.8	39.7	39.4	39.1	38.4	37.8	38.0	38.6	38.6	38.7	38.7	39.2	39.1
28	38.7	39.2	38.8	38.9	38.9	37.9	36.1	36.8	37.8	(37.6)	(37.9)	(38.2)	(38.5)	(38.8)	(39.0)
29	39.7	38.9	39.7	39.7	39.7	39.0	38.5	38.4	39.0	38.9	38.4	38.3	39.7	40.7	41.0
30*	39.2	38.4	38.7	38.6	38.3	37.5	36.6	36.1	35.5	36.8	37.8	38.9	39.6	40.1	41.4
31	†....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Mean....	38.9	38.9	38.9	38.7	38.3	37.1	35.6	35.2	36.3	37.4	38.4	39.3	40.0	40.5	40.6
Mean*....	38.9	38.8	38.8	38.6	38.1	37.0	35.3	35.2	36.2	37.4	38.6	39.7	40.3	40.8	41.0

AUGUST, 1905.

1° WEST PLUS TABULAR MINUTES.

1	†....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	38.6	39.8	37.9	37.1	40.7	38.2	34.2	36.4	36.4	37.2	40.0	41.7	43.2	43.2	42.4
3	39.6	41.8	39.9	40.2	39.7	38.2	35.8	34.6	34.6	35.9	38.3	39.9	42.6	43.8	43.3
4	39.5	40.3	40.8	40.3	39.0	38.3	37.0	37.8	39.0	40.7	41.0	41.0	40.7	41.0	41.4
5*	(38.8)	(38.6)	(38.4)	(38.2)	(38.0)	(37.8)	(37.4)	(37.2)	36.9	37.5	37.5	37.5	39.0	41.1	42.1
6	39.9	39.6	40.0	40.0	39.0	37.9	36.0	36.9	38.0	38.2	38.1	37.3	36.5	37.4	39.0
7	38.9	38.5	38.7	39.9	39.3	40.9	38.4	37.2	36.1	37.6	39.3	40.0	39.9	40.1	40.0
8	39.3	39.7	39.8	39.3	39.2	38.2	36.0	35.0	36.0	37.2	39.0	40.0	40.6	41.3	41.5
9*	40.1	40.1	39.9	39.7	39.3	38.1	36.0	35.1	35.7	37.7	39.1	39.3	39.3	40.2	40.9
10*	39.5	39.4	39.3	39.1	38.6	37.4	35.9	36.4	38.4	40.2	41.5	42.3	42.4	42.1	41.1
11	39.9	39.8	39.1	39.2	38.7	36.7	34.4	34.4	36.1	38.2	40.0	41.2	41.3	41.7	41.2
12	39.4	39.2	38.6	38.3	37.8	35.3	32.4	33.5	35.5	36.5	37.5	38.3	39.3	39.3	38.5
13*	39.4	39.0	38.3	37.7	37.6	36.3	34.1	35.6	37.9	39.8	42.2	43.4	43.7	43.8	42.9
14	39.3	39.0	40.0	40.5	38.5	36.2	32.9	32.0	33.8	36.8	39.7	41.5	42.1	42.4	42.2
15*	39.0	39.5	39.3	38.9	38.4	36.7	33.4	32.5	(35.5)	(38.1)	40.0	41.6	42.5	42.5	42.4
16*	39.7	39.5	38.5	39.3	37.8	36.3	32.4	34.6	35.7	38.4	40.2	41.5	42.4	42.8	42.5
17	39.5	39.6	39.0	39.1	38.8	37.2	33.7	33.7	35.0	37.0	38.2	39.8	41.5	42.5	42.9
18*	39.8	39.6	39.3	39.3	38.7	36.8	33.7	32.9	34.7	36.9	39.0	39.9	41.0	41.2	41.0
19	40.0	39.8	39.9	39.0	38.5	37.0	34.7	35.0	37.9	39.1	40.4	40.9	41.7	42.0	42.1
20	39.1	39.2	40.4	39.0	38.4	36.8	33.8	32.9	34.5	36.7	38.1	40.0	42.7	44.4	43.9
21	39.7	39.5	39.2	38.9	38.9	37.4	35.2	34.8	36.6	38.8	39.2	39.5	40.2	40.9	40.5
22*	40.0	39.6	39.6	39.2	38.8	37.9	36.3	36.2	37.3	38.1	38.8	39.6	39.6	40.1	40.9
23	39.6	39.2	39.6	39.2	38.6	37.3	35.1	35.7	37.1	39.0	39.2	39.7	39.9	39.6	39.3
24*	39.3	39.5	40.0	39.6	39.0	38.3	36.6	36.9	38.0	39.0	40.0	40.2	40.2	41.0	41.0
25	39.3	39.1	39.4	40.3	39.1	38.5	35.1	35.6	37.0	38.3	40.0	40.9	41.2	41.2	40.7
26	39.9	39.6	39.3	39.3	38.4	37.2	34.4	35.0	36.5	38.3	39.3	40.8	41.7	42.1	41.3
27	39.0	39.0	38.9	38.6	38.3	37.1	35.1	36.0	38.0	40.0	41.2	42.1	43.1	42.8	41.7
28	40.0	39.7	39.4	40.4	39.0	37.7	36.0	35.3	37.2	37.6	39.1	41.1	41.4	41.3	40.7
29	39.8	39.6	42.5	40.2	38.4	37.0	34.8	34.2	36.6	39.0	42.1	43.3	43.2	43.3	42.6
30	39.4	41.9	41.0	42.0	39.6	37.2	35.7	33.7	34.0	36.6	38.3	40.3	42.0	42.7	42.7
31*	40.6	40.6	40.2	39.2	38.5	36.7	34.2	34.1	34.7	37.3	39.3	40.6	42.2	42.3	42.4
Mean....	39.6	39.6	39.5	39.4	38.8	37.4	35.0	35.0	36.4	38.1	39.5	40.5	41.2	41.7	41.5
Mean*....	39.7	39.5	39.3	39.0	38.5	37.2	35.0	35.2	36.5	38.3	39.8	40.6	41.2	41.7	41.7

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.
† Variometer out of adjustment on July 31 and part of August 1.

HOURLY VALUES OF DECLINATION.

29

JULY, 1905.

1° WEST PLUS TABULAR MINUTES.

16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean	Maximum		Minimum		Range	Day
										h	m	h	m		
39.4	38.6	38.5	39.3	39.3	39.3	39.4	39.3	39.2	38.4	14	00	40.7	8	00	1
39.6	39.3	38.5	38.5	38.5	38.5	38.4	38.5	38.5	38.5	13	00	42.0	7	34	2
39.3	39.0	39.3	39.2	39.2	39.1	39.0	39.2	39.0	38.1	15	00	39.3	8	00	3
39.9	39.3	39.4	39.3	39.3	38.9	38.8	38.8	38.8	38.5	14	00	41.9	7	46	4
39.9	39.6	39.6	40.2	40.2	39.0	36.0	36.1	37.6	38.4	12	00	40.1	7	45	5
40.6	39.8	39.1	39.1	38.9	38.7	38.3	38.3	38.1	37.7	15	00	41.6	8	00	6
40.4	39.8	39.7	39.4	38.9	38.7	38.5	38.7	38.8	38.3	16	00	40.4	8	15	7
41.4	40.7	39.6	38.9	38.7	38.3	38.8	37.9	37.8	38.5	15	28	41.6	7	36	8
39.8	39.9	40.0	39.4	39.4	39.4	38.9	39.0	39.0	38.5	15	00	39.9	8	00	9
39.0	38.9	38.8	39.6	39.6	39.1	39.5	39.4	39.1	38.5	14	00	39.9	8	00	10
40.9	40.8	40.4	40.0	39.9	39.9	39.8	39.6	39.5	39.3	14	26	41.3	7	32	11
39.6	39.7	39.9	39.8	39.9	40.0	39.7	38.9	39.4	39.1	13	23	41.3	7	32	12
40.8	40.3	39.9	39.8	39.9	39.8	39.8	39.7	39.7	38.9	13	24	41.2	7	39	13
39.0	38.9	38.9	39.4	39.6	39.8	39.7	39.6	39.6	38.7	13	16	40.9	8	00	14
40.3	39.1	38.9	39.6	39.6	39.4	39.3	39.3	39.2	38.8	13	28	41.5	8	00	15
40.1	39.8	39.8	39.8	39.8	39.7	39.6	39.4	39.0	39.0	14	54	40.4	7	16	16
40.8	39.8	38.8	38.7	38.9	38.9	38.9	38.9	38.8	38.8	14	00	41.8	6	52	17
41.7	40.0	39.1	39.0	38.9	38.8	38.6	38.5	38.3	38.5	14	42	42.3	7	20	18
40.7	39.9	39.2	39.0	38.9	38.7	38.4	38.1	38.2	38.3	15	00	41.1	7	48	19
40.0	38.8	38.6	38.6	38.6	38.6	38.6	38.6	38.2	38.4	14	00	40.8	7	39	20
39.8	39.7	39.0	38.9	41.0	40.9	39.5	39.3	39.1	38.3	15	00	40.2	8	23	21
41.0	40.2	39.5	39.8	39.7	39.4	39.0	39.0	39.0	39.2	14	23	42.9	8	00	22
40.9	41.1	40.5	39.4	39.2	39.8	39.2	39.4	39.2	39.0	15	22	42.9	8	00	23
39.8	39.2	39.2	39.7	39.6	39.2	39.0	38.6	38.8	39.1	14	00	41.0	7	51	24
39.8	38.9	38.9	38.6	38.4	38.8	38.6	38.4	38.3	38.5	14	00	40.2	7	25	25
39.2	39.7	39.7	40.4	40.5	41.6	40.4	40.0	40.0	38.9	14	00	39.9	7	00	26
38.8	39.0	39.9	40.0	40.3	40.1	39.8	39.4	38.8	39.2	20	00	40.3	8	00	27
(39.2)	39.5	39.0	39.7	39.9	39.8	39.7	39.8	39.7	38.7	20	00	39.9	7	00	28
40.0	39.0	39.0	38.6	38.9	39.0	38.9	38.9	38.9	39.2	15	00	41.0	11	38	29
40.8	39.4	39.1	39.4	39.2	39.4	39.4	39.4	39.1	38.7	14	23	41.6	8	41	30
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	31
40.1	39.6	39.3	39.4	39.4	39.4	39.0	38.9	38.9	38.7						
40.2	39.5	39.1	39.2	39.2	39.1	39.1	38.9	38.8	38.6						

AUGUST, 1905.

1° WEST PLUS TABULAR MINUTES.

16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean	Maximum		Minimum		Range	Day
										h	m	h	m		
....	....	39.8	40.5	40.6	40.7	40.1	38.7	39.2	....	13	00	43.3	7	11	1
40.6	39.7	39.8	39.9	39.7	39.6	38.7	40.9	40.2	39.4	14	00	43.8	8	39	2
42.7	41.6	40.9	40.6	39.6	39.3	39.8	38.9	39.0	39.6	11	35	41.4	7	27	3
41.1	40.7	40.3	39.9	39.9	39.7	39.0	38.9	39.0	39.8	15	00	42.1	9	00	4
41.9	41.8	40.8	40.4	40.0	39.9	39.9	39.7	39.6	39.2						5
40.2	40.6	40.5	39.9	39.2	39.2	39.5	39.3	40.9	38.9	16	12	40.5	7	16	6
40.4	41.2	41.0	40.2	39.2	39.2	39.2	39.3	39.4	39.3	5	37	41.5	9	00	7
41.0	40.5	40.1	40.2	40.2	40.0	39.9	39.9	39.9	39.3	15	00	41.5	7	23	8
40.3	40.1	40.0	40.0	40.1	40.0	40.0	39.5	39.4	39.2	14	47	41.1	8	00	9
40.4	40.1	40.2	40.5	40.4	40.1	39.8	39.6	39.4	39.8	13	00	42.4	7	09	10
39.4	39.2	39.6	40.3	40.4	40.2	40.2	39.7	39.4	39.2	13	42	41.8	7	21	11
38.2	39.0	39.5	39.7	39.8	40.1	40.2	39.9	39.5	38.1	13	00	39.3	7	00	12
40.9	39.5	39.3	39.8	40.0	39.9	39.6	39.6	39.6	39.6	14	00	43.8	7	00	13
41.1	40.5	39.7	39.9	39.9	40.2	39.9	39.9	39.8	39.1	14	00	42.4	7	27	14
41.0	39.8	39.5	39.5	39.6	39.7	39.8	39.6	39.6	39.1	13	15	42.9	8	00	15
(41.3)	40.1	39.9	39.7	39.5	39.7	39.6	39.6	39.5	39.2	14	00	42.7	7	34	16
42.2	41.5	40.5	40.2	40.1	39.8	39.8	39.8	39.7	39.2	14	29	43.2	7	53	17
40.2	40.0	39.7	39.9	40.0	39.9	39.8	39.7	40.0	38.9	13	40	41.4	7	42	18
41.8	40.9	39.9	39.9	39.9	40.0	39.0	38.5	39.6	39.5	14	38	42.2	7	19	19
42.1	40.8	40.0	40.3	40.3	40.0	39.8	39.1	39.1	39.2	14	22	44.8	7	50	20
40.0	39.9	39.9	40.2	40.2	40.2	39.6	39.9	39.7	39.1	14	00	40.9	7	40	21
40.8	39.8	39.9	40.1	40.5	39.2	39.9	39.8	39.7	39.2	15	00	40.9	8	00	22
39.0	39.2	39.2	40.0	39.4	39.7	39.3	39.3	39.2	38.8	14	32	41.2	7	00	23
40.2	40.1	39.6	40.1	40.2	40.1	39.3	39.4	39.3	39.5	14	31	41.1	7	28	24
40.1	39.7	39.9	40.0	40.3	39.3	39.7	39.6	39.8	39.3	13	33	41.6	7	25	25
40.6	40.2	40.3	40.4	40.4	40.3	40.3	39.2	39.0	39.3	14	00	42.1	7	34	26
41.1	40.3	40.2	40.2	40.3	40.2	39.6	39.7	39.4	39.7	13	00	43.1	7	00	27
41.0	39.4	40.1	39.7	39.3	38.1	39.3	40.1	39.3	39.3	12	34	41.6	7	55	28
41.3	40.3	39.1	39.2	39.6	40.3	40.0	39.0	38.6	39.8	12	41	43.5	7	32	29
41.2	40.6	40.0	39.6	40.1	40.0	39.7	40.1	40.1	39.5	14	37	43.1	8	00	30
41.3	40.9	40.7	40.3	40.0	39.6	40.0	40.1	40.0	39.4	14	34	42.7	8	16	31
40.8	40.3	40.0	40.0	39.9	39.8	39.7	39.6	39.6	39.3						
40.8	40.2	40.0	40.0	40.0	39.8	39.8	39.7	39.6	39.3						

NOTE.—Values in parentheses were interpolated.

SEPTEMBER, 1905.

1° WEST PLUS TABULAR MINUTES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	40.0	39.8	39.6	39.3	39.0	37.7	35.3	35.4	36.6	37.4	39.0	39.2	40.4	41.2	40.3
2	39.3	39.2	39.1	38.9	38.6	37.2	35.1	35.1	36.1	37.6	38.4	40.0	40.9	40.9	40.4
3	39.9	39.8	40.3	39.9	40.4	40.9	38.9	35.8	36.8	37.2	39.1	40.3	40.6	41.7	42.1
4	39.7	39.4	39.6	38.6	38.5	37.6	35.4	34.9	35.6	35.3	38.1	39.8	40.7	42.2	42.3
5	39.3	39.0	40.1	38.7	38.9	37.5	35.0	34.3	35.2	36.9	38.3	40.1	41.2	41.3	41.7
6	39.2	39.3	39.0	39.0	38.7	37.7	36.1	36.1	36.7	38.1	39.3	40.1	41.0	41.0	41.2
7*	39.9	39.9	39.6	39.4	39.2	38.1	36.2	36.0	37.2	38.7	40.4	42.1	42.8	42.5	42.4
8*	39.6	39.4	38.8	37.9	38.0	36.2	34.2	34.5	35.7	37.1	39.5	40.7	40.9	40.6	40.2
9*	39.3	38.7	38.5	38.1	37.9	36.7	34.7	35.2	37.5	41.0	43.2	44.4	43.8	43.2	42.4
10	39.5	39.2	38.7	38.7	38.1	36.6	34.4	35.0	35.8	39.1	41.5	43.2	43.5	43.2	41.7
11	40.1	40.0	39.6	39.2	38.1	36.1	33.6	33.7	36.1	38.7	41.6	42.8	43.1	42.7	41.2
12	40.1	39.7	39.2	40.3	38.7	36.9	34.9	34.8	36.4	37.7	39.4	40.7	41.8	42.4	42.0
13*	39.7	39.6	39.4	38.8	38.5	35.9	33.6	34.5	36.7	38.7	40.4	42.2	42.6	42.3	41.4
14*	39.8	39.7	39.4	39.1	38.2	35.9	33.1	33.5	35.1	37.7	40.5	42.7	43.4	43.2	42.9
15*	39.8	39.8	39.6	38.8	38.5	36.7	34.3	34.3	36.1	38.3	41.4	42.2	42.8	42.9	42.4
16*	40.2	40.3	39.9	39.5	39.2	37.7	35.2	34.7	36.5	38.8	41.1	42.8	43.6	43.5	42.6
17	40.2	40.2	39.8	39.3	38.9	36.6	34.6	35.2	37.4	38.7	39.8	40.8	41.9	42.6	42.0
18	40.2	39.6	38.9	38.7	38.8	38.4	38.6	37.6	39.6	41.2	42.9	42.0	42.0	41.9	41.5
19	38.8	37.0	38.9	37.0	40.2	39.0	37.8	37.9	38.9	40.9	43.0	44.8	44.7	42.9	41.9
20	39.7	39.7	39.7	39.7	39.8	39.0	37.4	36.7	36.6	37.1	38.8	40.9	42.0	42.9	42.6
21	39.3	39.6	39.5	39.8	39.9	38.3	37.0	37.3	38.0	39.6	40.8	41.7	41.8	41.7	41.1
22*	40.1	40.2	40.1	39.9	39.8	38.8	37.8	38.0	38.8	39.3	40.6	41.9	42.4	42.3	42.1
23*	40.0	40.0	39.8	39.6	39.3	38.3	36.5	36.8	37.0	38.1	39.8	40.9	40.9	40.1	39.7
24	40.1	40.2	39.6	39.2	39.3	38.9	38.1	37.3	37.2	37.1	38.9	40.4	41.1	40.5	40.0
25*	40.4	40.0	39.9	39.4	38.9	38.5	37.8	38.1	39.0	40.9	42.5	43.9	43.2	42.3	41.4
26	39.3	39.0	39.0	39.0	38.0	38.0	37.3	37.1	38.5	39.9	41.8	42.2	42.0	41.7	41.2
27	39.1	40.3	41.6	39.1	38.0	38.9	37.9	38.4	39.5	40.4	41.3	42.2	42.1	41.8	41.5
28	†
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Mean	39.8	39.6	39.4	39.1	38.9	37.7	35.9	35.8	37.0	38.5	40.5	41.7	42.1	42.1	41.6
Mean *...	39.9	39.8	39.5	39.0	38.8	37.3	35.3	35.6	37.0	38.9	40.9	42.4	42.6	42.3	41.8

OCTOBER, 1905.

1° WEST PLUS TABULAR MINUTES.

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14	40.3	40.9	41.6	41.3	39.7	39.0	37.7	35.7	35.7	37.2	39.3	40.8	41.3	40.9	40.8
15*	40.7	40.7	40.4	40.2	39.9	39.3	38.5	37.8	37.5	38.5	40.0	41.0	41.0	40.5	40.7
16*	40.8	40.9	40.8	40.7	40.6	39.6	37.7	36.6	36.9	38.7	41.3	42.6	42.3	41.9	41.3
17*	41.7	41.7	41.3	41.3	41.0	40.3	39.2	38.1	38.5	39.7	41.5	42.5	42.8	42.9	43.2
18*	41.4	41.1	41.0	41.1	41.0	40.4	38.3	37.9	38.8	38.8	40.5	41.8	42.2	42.2	42.5
19*	41.0	40.9	40.9	40.8	40.8	40.3	39.5	37.8	37.1	37.5	39.0	40.7	41.5	42.1	43.0
20*	40.9	40.9	40.9	41.1	41.1	41.1	39.5	38.1	37.7	37.5	38.5	39.9	41.8	42.8	43.2
21*	41.2	40.9	41.0	41.0	41.0	40.9	40.0	38.4	37.5	37.5	38.0	39.2	40.1	41.1	41.8
22*	40.9	40.3	40.4	40.8	40.8	40.5	40.5	39.1	38.1	38.1	38.9	39.9	39.9	40.9	42.3
23	41.5	41.4	41.6	41.0	40.7	40.6	40.1	39.9	39.8	(39.7)	39.7	39.9	40.1	40.8	41.5
24*	40.4	40.4	40.4	40.8	40.1	39.9	38.9	37.9	37.7	37.1	37.7	37.9	38.4	39.7	(40.5)
25	40.3	40.1	40.1	39.9	39.8	39.9	39.5	39.2	39.6	39.8	40.1	40.4	39.8	40.0	42.0
26	40.7	41.5	40.3	40.0	39.9	39.8	38.8	39.2	40.2	40.8	42.0	42.7	43.0	42.6	42.7
27*	41.5	41.5	41.4	41.1	40.6	39.9	38.8	37.9	38.1	39.0	40.1	40.7	41.1	41.5	42.1
28	41.3	41.2	40.9	40.3	40.1	39.3	37.7	36.2	36.7	39.1	41.9	42.0	42.3	41.9	41.9
29	41.0	41.0	40.9	40.5	40.2	39.8	38.8	38.4	39.0	40.1	41.7	42.5	42.5	42.3	41.8
30	40.8	41.0	40.8	40.5	40.1	39.8	38.1	37.1	37.3	38.4	40.1	41.3	42.8	43.9	43.3
31	40.9	40.9	40.9	40.7	40.2	39.9	38.6	36.4	35.1	35.2	37.2	40.0	41.1	41.5	41.4
Mean	41.0	41.0	40.9	40.7	40.4	40.0	38.9	37.9	37.8	38.5	40.9	40.9	41.3	41.6	42.0
Mean *...	41.0	40.9	40.8	40.9	40.7	40.2	39.1	38.0	37.8	38.2	39.6	40.6	41.1	41.6	42.1

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.
† Out of adjustment from September 27 to October 13.

HOURLY VALUES OF DECLINATION.

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SEPTEMBER, 1905.

1° WEST PLUS TABULAR MINUTES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
										<i>h</i>	<i>m</i>	<i>s</i>	<i>h</i>	<i>m</i>	<i>s</i>		
39.3	39.0	39.2	39.2	40.0	39.6	39.3	40.3	39.2	39.0	14	00	41.2	7	00	35.3	5.9	1
40.0	(39.7)	39.4	40.1	40.0	39.6	39.6	39.6	39.6	39.9	13	26	41.0	7	28	34.7	6.3	2
41.9	41.2	40.4	39.9	39.9	39.9	39.8	39.7	39.8	39.8	5	36	43.0	8	10	35.1	7.9	3
41.9	41.5	40.9	40.8	40.5	39.9	38.6	39.2	39.0	39.2	14	51	42.9	8	38	34.7	8.2	4
41.3	41.0	40.1	40.1	40.1	39.7	39.4	39.5	39.9	39.1	15	06	41.8	8	00	34.3	7.5	5
40.5	40.2	40.2	40.3	40.0	40.0	40.2	40.0	40.0	39.3	15	00	41.2	8	00	36.1	5.1	6
41.5	40.7	40.5	40.2	40.0	39.9	39.9	39.9	39.5	39.9	13	00	42.8	8	00	36.0	6.8	7
39.9	(40.1)	40.3	40.4	40.6	40.3	40.3	39.8	39.8	39.0	13	00	40.9	7	21	34.0	6.9	8
41.1	40.1	40.4	40.4	39.5	39.9	39.9	39.9	39.7	39.8	12	00	44.4	7	15	34.2	10.2	9
40.7	40.5	40.5	40.2	40.4	40.2	40.2	40.2	40.2	39.6	12	36	43.7	6	48	33.2	10.5	10
40.2	39.7	40.1	40.5	40.3	40.1	40.2	39.7	40.4	39.5	13	00	43.1	7	27	32.5	10.6	11
40.7	40.4	40.4	40.3	39.7	39.7	39.7	39.7	39.7	39.4	14	00	42.4	7	44	34.6	7.8	12
40.4	39.7	39.7	39.7	40.0	39.9	39.7	39.8	39.7	39.3	13	00	42.6	7	06	33.4	9.2	13
41.8	40.7	40.4	40.4	40.5	40.5	40.3	40.2	40.2	39.6	13	00	43.4	7	35	32.8	10.6	14
41.2	40.7	40.5	40.1	40.4	40.5	40.6	40.5	40.5	39.7	13	35	43.0	7	41	34.0	9.0	15
41.4	40.5	40.7	40.6	40.5	40.5	40.1	40.2	40.2	40.0	13	00	43.6	7	38	34.5	9.1	16
41.6	41.1	41.0	40.8	40.7	40.4	40.5	40.3	40.1	39.8	14	00	42.6	7	00	34.6	8.0	17
41.8	41.5	41.6	40.6	38.9	39.2	39.6	38.9	38.8	40.1	11	00	42.9	8	00	37.6	5.3	18
41.6	40.9	40.7	40.2	39.6	38.9	38.8	38.8	39.2	40.1	12	00	44.8	3	33	36.6	8.2	19
41.8	40.8	39.9	37.0	39.5	39.6	40.1	39.1	39.5	39.6	14	00	42.9	9	00	36.6	6.3	20
40.7	40.8	40.5	40.1	40.1	40.1	40.1	40.2	40.3	39.9	12	32	42.2	7	37	36.8	5.4	21
42.0	41.7	41.7	40.4	40.9	40.8	40.5	40.2	40.1	40.4	13	00	42.4	7	18	37.4	5.0	22
40.1	41.1	40.9	40.9	40.7	40.5	40.6	40.5	40.3	39.7	12	17	41.1	6	58	36.4	4.7	23
40.2	40.5	40.9	40.9	40.6	40.8	40.6	40.5	40.9	39.7	13	00	41.1	8	45	36.6	4.5	24
40.0	39.7	40.3	40.3	40.3	40.5	40.3	40.2	40.0	40.3	12	00	44.0	7	00	37.8	6.2	25
41.9	41.3	40.8	39.1	39.0	39.5	40.0	40.1	39.7	39.8	11	31	42.5	8	35	37.0	5.5	26
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.....	30
41.0	40.5	40.5	40.1	40.1	40.0	40.0	39.9	39.9	39.6							7.3	
40.9	40.5	40.5	40.3	40.3	40.3	40.2	40.1	40.0	39.8							7.8	

OCTOBER, 1905.

1° WEST PLUS TABULAR MINUTES.

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40.7	41.4	41.3	41.1	40.8	40.6	40.7	40.7	40.7	40.0	3	07	41.9	8	34	35.6	6.3	14
40.9	41.3	41.3	41.3	40.9	41.0	41.0	40.9	40.9	40.3	13	00	41.0	9	00	37.5	3.5	15
41.3	41.3	41.1	40.9	41.6	41.2	41.2	41.1	40.7	40.5	12	00	42.6	8	27	36.5	6.1	16
42.5	42.0	42.1	41.7	40.6	41.3	41.2	41.5	41.4	41.2	14	31	43.2	8	00	38.1	5.1	17
41.8	41.4	41.2	41.1	40.9	40.9	41.0	40.9	41.0	40.8	15	00	42.5	7	38	37.4	5.1	18
42.9	42.7	41.9	41.8	41.2	41.1	41.1	41.0	40.9	40.7	15	00	43.0	9	00	37.1	5.9	19
(43.1)	43.0	42.5	42.1	41.8	41.4	41.4	41.3	41.2	41.0	15	26	43.3	9	09	37.5	5.8	20
42.1	42.5	42.0	41.6	41.1	40.9	40.9	40.9	40.8	40.5	16	00	42.1	10	00	37.5	4.6	21
43.5	43.2	42.3	42.2	41.9	41.7	41.6	41.5	41.5	40.9	16	00	43.5	9	44	38.0	5.5	22
40.8	41.3	41.1	41.1	40.7	40.3	40.7	40.5	40.5	40.6	14	37	42.3	11	00	39.7	2.6	23
(41.6)	42.3	41.7	41.3	40.9	40.7	40.5	40.5	40.4	39.9	17	00	42.3	10	00	37.1	5.2	24
42.8	43.0	42.8	42.5	42.6	41.4	41.3	41.0	40.5	40.8	17	00	43.0	8	18	39.1	3.9	25
42.6	43.3	42.2	42.2	41.7	41.2	41.4	41.5	42.1	41.4	16	53	43.4	7	00	38.8	4.6	26
42.0	41.9	41.7	41.4	41.2	41.2	41.5	41.7	41.4	40.8	15	00	42.1	8	30	37.9	4.2	27
42.1	42.2	41.5	41.2	40.8	40.8	40.9	41.1	41.0	40.6	12	46	42.5	8	24	35.7	6.8	28
41.1	41.1	41.1	40.9	40.8	40.5	40.6	40.6	40.7	40.7	12	00	42.5	8	00	38.4	4.1	29
42.3	41.2	41.1	40.8	40.6	40.2	40.5	40.6	40.6	40.6	14	00	43.9	8	32	37.0	6.9	30
41.3	(41.8)	42.3	42.0	41.4	41.3	41.4	41.4	41.4	40.2	18	00	42.3	9	18	35.0	7.3	31
42.0	42.0	41.7	41.5	41.2	41.0	41.0	41.0	41.0	40.6							5.2	
42.2	42.2	41.8	41.5	41.2	41.1	41.1	41.1	41.0	40.7							5.1	

NOTE.—Value in parentheses were interpolated.

† Out of adjustment from September 27 to October 13.

NOVEMBER, 1905.

1° WEST PLUS TABULAR MINUTES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	41.5	41.4	41.4	41.3	40.9	40.5	39.9	38.9	38.4	38.2	39.3	41.2	43.0	43.7	43.6
2*	41.3	41.3	41.4	41.2	40.9	40.9	40.3	38.6	37.2	36.7	37.8	39.3	40.3	40.6	41.4
3*	41.5	41.4	41.3	41.3	40.8	40.6	40.2	39.1	38.8	39.0	40.3	41.0	41.4	41.9	41.7
4*	41.2	40.6	40.6	40.5	40.4	40.7	40.3	39.0	38.8	38.8	39.3	40.4	39.7	41.3	42.3
5	40.0	40.3	40.0	40.0	40.5	40.5	40.2	39.4	39.3	39.2	39.4	39.4	39.2	39.5	41.2
6	41.1	40.7	40.4	40.7	40.4	40.5	40.6	40.5	39.9	40.6	41.3	41.7	41.3	40.9	41.0
7	†....
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11
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13
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15
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17
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19
20
21
22
23
24
25*	40.6	40.5	40.3	39.8	39.7	39.8	39.6	38.8	38.3	38.7	40.4	40.9	41.4	41.4	41.7
26*	40.2	40.6	40.6	40.0	39.8	39.6	39.2	38.2	37.8	38.0	38.9	40.1	41.1	41.6	41.9
27	41.1	41.0	41.8	41.7	41.0	41.3	40.9	40.1	39.6	39.6	40.7	41.8	42.7	43.7	43.4
28	42.4	42.0	41.6	41.1	40.6	40.6	40.5	39.7	38.9	38.8	39.4	39.8	40.4	40.8	41.4
29*	39.5	39.5	39.3	39.3	39.0	39.0	39.2	38.9	38.6	38.6	39.1	39.8	40.8	41.6	41.9
30	†....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Mean.....	41.0	40.8	40.8	40.6	40.4	40.4	40.1	39.2	38.7	38.8	39.6	40.5	41.0	41.6	42.0
Mean*....	40.8	40.8	40.7	40.5	40.2	40.2	39.8	38.8	38.3	38.3	39.3	40.4	41.1	41.7	42.1

DECEMBER, 1905.

1° WEST PLUS TABULAR MINUTES.

1	†....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6*	41.5	41.6	41.6	41.4	41.4	41.4	41.3	40.3	39.5	39.6	40.8	42.0	43.2	43.3	43.2
7*	41.3	41.6	41.4	41.4	41.4	41.2	41.3	40.6	39.9	39.7	39.9	39.8	40.6	42.2	43.2
8*	41.4	41.6	41.8	41.8	41.5	41.7	41.8	41.2	40.4	40.2	40.7	40.8	41.0	41.7	42.2
9	41.3	41.5	41.5	41.3	41.2	41.3	41.3	40.3	40.1	40.2	40.0	40.2	41.2	42.4	43.1
10*	41.9	42.3	42.0	41.9	41.9	41.4	41.1	39.4	38.1	37.3	37.4	38.4	40.4	42.3	43.7
11	41.8	41.9	42.0	41.8	41.7	41.5	41.6	40.7	39.9	39.7	39.7	40.6	42.2	42.9	43.1
12	42.3	41.9	41.9	41.5	40.9	41.4	41.5	40.6	39.7	40.0	40.4	41.0	42.2	42.6	43.2
13	41.1	42.1	40.7	40.8	41.3	40.4	40.5	39.3	37.9	38.7	39.4	41.1	43.0	44.1	43.8
14	42.0	42.2	42.3	41.9	41.6	41.5	41.4	40.0	38.4	38.4	39.3	40.6	42.5	43.1	43.3
15*	41.9	41.9	42.0	41.7	41.4	41.4	41.8	39.8	39.0	37.8	39.0	41.8	43.8	43.9	43.5
16	42.3	42.3	42.4	42.4	42.2	42.2	42.4	41.4	39.7	38.8	39.3	40.1	41.3	43.0	44.1
17*	41.7	41.7	41.9	41.8	42.2	41.8	42.4	41.5	40.5	39.5	39.1	40.0	41.2	42.3	43.3
18*	41.9	42.3	42.6	42.3	41.9	42.0	42.0	41.0	39.7	38.7	38.3	39.1	41.6	43.6	44.1
19	42.1	42.4	42.4	42.4	42.0	42.3	42.4	41.4	39.8	39.1	38.1	39.3	41.4	42.7	43.8
20	41.6	42.2	42.8	43.1	42.6	42.7	42.1	39.4	38.3	39.1	39.5	40.5	41.8	43.5	44.6
21	41.8	42.3	42.3	42.1	41.9	41.7	41.7	40.9	39.7	39.1	38.9	39.4	41.3	43.5	44.5
22*	41.8	42.0	42.1	42.1	41.8	41.6	41.6	40.5	39.3	39.0	39.8	41.8	43.2	44.5	44.7
23	41.6	41.8	41.7	41.5	41.4	41.2	41.4	40.2	38.5	38.2	39.6	42.1	44.1	44.7	44.4
24	41.9	41.9	41.9	41.8	41.6	41.4	41.1	39.4	38.3	38.4	39.6	42.0	44.2	44.9	44.5
25	41.7	41.7	41.7	41.5	41.5	41.4	41.5	39.9	37.9	38.0	39.5	42.1	44.1	45.1	44.3
26*	42.8	42.2	42.0	42.2	41.7	41.2	41.2	39.8	38.4	38.5	39.3	40.1	41.7	43.2	43.5
27*	41.7	41.9	41.9	41.7	41.8	41.2	41.0	39.8	38.6	38.7	40.2	42.4	44.4	45.1	44.0
28	41.7	42.0	42.2	41.7	41.4	40.9	40.5	38.4	35.8	36.2	37.5	40.0	42.5	44.2	43.6
29	41.9	42.5	42.5	42.6	42.7	42.2	41.9	39.5	38.5	38.3	39.2	41.2	43.8	44.7	44.2
30	42.3	42.1	42.4	41.9	41.8	42.1	42.0	39.9	37.7	36.8	38.4	41.1	43.9	45.0	44.6
31	42.1	42.5	42.4	42.4	42.1	41.8	41.0	39.5	38.6	39.0	39.7	42.9	44.7	44.6	43.8
Mean.....	41.8	42.0	42.0	41.9	41.7	41.6	41.5	40.2	38.9	38.7	39.3	40.8	42.5	43.6	43.8
Mean*....	41.8	41.9	41.8	41.8	41.7	41.5	41.6	40.4	39.4	38.9	39.4	40.6	42.1	43.2	43.5

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

† Not in good adjustment from November 7 to 24 and from November 30 to December 5.

NOVEMBER, 1905.

1° WEST PLUS TABULAR MINUTES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
										<i>h</i>	<i>m</i>		<i>h</i>	<i>m</i>			
43.0	42.4	42.0	41.8	41.5	41.3	41.4	41.3	41.4	41.2	14	00	43.7	10	00	38.2	5.5	1
41.9	42.4	42.0	41.6	41.3	41.2	41.3	41.3	41.4	40.6	17	00	42.4	9	39	36.6	5.8	2
41.5	41.6	41.9	41.4	41.3	40.7	40.9	40.9	40.9	40.9	14	31	42.0	9	00	38.8	3.2	3
43.7	43.5	43.4	42.6	41.8	41.2	40.4	39.9	40.0	40.8	16	00	43.7	10	33	38.7	5.0	4
42.5	42.9	42.4	41.8	41.3	41.1	40.4	40.8	40.6	40.5	16	45	43.0	9	24	38.6	4.4	5
(41.5)	42.4	41.8	41.8	40.9	41.3	40.3	39.6	39.5	40.9	17	00	42.4	22	38	39.3	3.1	6
.....	7
.....	8
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.....	13
.....	14
.....	15
.....	16
.....	17
.....	18
.....	19
.....	20
.....	21
.....	22
.....	23
.....	24
41.5	41.5	41.0	40.8	40.4	40.0	40.0	40.1	40.0	40.3	15	00	41.7	9	00	38.3	3.4	25
42.0	41.7	41.0	41.2	41.1	40.9	40.9	40.9	40.9	40.3	16	00	42.0	9	45	37.6	4.4	26
43.1	42.6	42.4	42.3	42.1	41.8	41.8	41.9	42.1	41.7	14	00	43.7	9	31	39.5	4.2	27
41.5	40.9	40.4	40.2	39.9	39.8	39.8	39.7	39.5	40.4	1	00	42.4	9	39	38.5	3.9	28
42.0	41.7	41.3	40.9	40.3	40.6	40.3	40.5	40.5	40.1	16	00	42.0	9	30	38.6	3.4	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
42.2	42.2	41.8	41.5	41.1	40.9	40.7	40.6	40.6	40.7							4.2	
42.2	42.1	41.8	41.5	41.1	40.8	40.7	40.7	40.7	40.6							4.4	

DECEMBER, 1905.

1° WEST PLUS TABULAR MINUTES.

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.....	2
.....	3
.....	4
.....	5
43.1	42.7	42.4	42.4	41.7	41.4	41.2	41.1	41.5	41.6	14	00	43.3	9	23	39.2	4.1	6
43.8	43.2	42.4	42.1	41.8	41.6	41.3	41.3	41.3	41.4	16	00	43.8	12	00	39.8	4.0	7
42.3	42.2	42.2	41.8	41.7	41.4	41.4	41.3	41.4	41.5	16	00	42.3	9	31	39.8	2.5	8
42.8	42.3	41.8	41.2	41.0	40.8	41.0	41.2	41.6	41.3	15	00	43.1	11	00	40.0	3.1	9
43.3	42.3	41.9	41.6	41.5	41.4	41.3	41.4	41.6	41.1	15	00	43.7	10	10	37.2	6.5	10
42.8	42.8	41.8	41.5	41.3	41.2	41.4	41.3	42.1	41.6	15	00	43.1	11	00	39.7	3.4	11
42.9	41.9	41.3	41.8	41.8	40.9	41.3	42.3	40.6	41.5	15	00	43.2	8	42	39.0	4.2	12
42.9	41.9	42.0	41.9	41.3	41.1	41.3	41.4	41.8	41.2	13	30	44.4	8	54	37.8	6.6	13
43.3	42.8	42.0	41.7	41.1	41.1	41.4	41.4	41.6	41.5	14	35	43.5	9	22	38.2	5.3	14
43.0	43.7	41.6	41.9	41.4	41.6	41.7	42.0	42.3	41.7	13	31	44.4	10	00	37.8	6.6	15
43.9	42.8	42.2	41.8	41.6	41.4	41.4	41.5	41.5	41.8	15	00	44.1	10	00	38.8	5.3	16
43.4	42.7	42.1	41.9	41.5	41.4	41.2	41.7	41.6	41.6	15	19	43.6	11	00	39.1	4.5	17
43.3	42.3	41.6	41.6	41.5	40.8	41.4	41.4	41.6	41.5	14	29	44.3	10	47	38.1	6.2	18
43.6	43.0	42.1	41.7	41.5	41.4	41.4	41.1	41.4	41.6	15	24	43.9	11	00	37.8	6.1	19
44.4	43.5	42.4	41.8	40.8	41.3	41.5	41.6	41.6	41.8	15	00	44.6	9	00	38.3	6.3	20
44.2	43.4	42.4	42.0	41.7	41.7	41.7	41.6	41.6	41.7	15	00	44.6	11	00	38.9	5.7	21
44.1	43.1	42.4	42.0	41.7	41.9	41.7	41.6	41.6	41.9	14	42	44.7	10	00	39.0	5.7	22
43.6	42.5	42.5	42.3	42.2	42.0	42.1	42.0	41.9	41.8	14	00	44.7	9	35	38.1	6.6	23
43.6	42.8	42.0	41.8	41.7	41.4	41.5	41.8	41.6	41.7	14	00	44.9	9	33	38.1	6.8	24
42.9	42.1	41.7	41.6	41.4	41.2	41.4	41.5	41.8	41.6	14	00	45.1	9	31	37.4	7.7	25
42.5	41.9	41.6	41.6	41.3	41.4	41.6	41.6	41.8	41.4	14	32	43.5	9	35	38.0	5.5	26
42.4	41.2	40.8	40.9	40.7	40.8	40.9	41.2	41.5	41.4	13	48	45.3	9	26	38.4	6.9	27
42.4	42.7	43.1	43.0	41.1	40.7	41.0	41.7	41.9	41.1	14	00	44.2	9	39	35.5	8.7	28
43.5	43.1	42.6	42.3	41.9	41.5	41.6	42.0	42.1	41.9	14	02	44.8	9	44	37.9	6.9	29
43.8	43.0	42.2	41.9	41.7	41.7	41.6	41.9	42.1	41.7	14	13	45.1	10	00	36.8	8.3	30
42.6	42.1	42.4	42.0	41.8	41.7	41.4	41.6	41.8	41.9	13	37	45.0	9	28	38.5	6.5	31
43.2	42.6	42.1	41.8	41.5	41.3	41.4	41.6	41.7	41.6							5.8	
43.1	42.5	41.9	41.8	41.5	41.4	41.4	41.5	41.6	41.5							5.2	

NOTE.—Value in parentheses was interpolated.

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JANUARY, 1906.

1° WEST PLUS TABULAR MINUTES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	42.2	42.2	42.1	42.2	42.3	41.8	41.5	39.2	37.2	(37.6)	(39.7)	(41.9)	(43.9)	(44.7)	(44.4)
2*	42.0	42.1	42.4	42.4	42.2	41.9	41.9	40.2	38.5	38.3	40.9	43.8	44.9	45.6	45.1
3	42.1	42.0	42.0	42.0	42.0	41.7	42.3	41.3	39.5	38.3	39.5	42.8	44.0	45.6	45.4
4*	41.8	41.9	42.1	42.0	42.1	41.9	41.8	42.0	39.8	39.0	39.6	42.8	44.9	45.6	45.0
5	42.0	42.1	42.2	42.1	42.1	41.9	42.2	41.6	39.6	38.0	38.0	42.7	44.8	44.7	44.1
6*	42.2	42.3	42.4	42.2	42.2	42.2	42.2	41.0	39.3	39.0	40.0	42.1	45.0	45.6	45.5
7	42.2	42.5	42.5	42.5	42.4	42.1	42.3	41.2	39.4	38.1	38.1	39.4	41.6	43.4	44.0
8	42.1	42.2	42.5	42.4	42.1	42.0	42.5	40.9	38.6	38.7	39.9	40.9	42.1	44.1	44.9
9	42.2	42.4	42.4	42.4	42.3	42.3	42.8	40.9	38.0	38.5	39.7	41.8	42.8	43.4	43.8
10*	42.8	42.9	42.9	42.7	42.5	42.2	42.1	40.0	37.9	37.7	38.7	41.8	43.8	43.8	43.4
11	43.0	43.0	43.0	42.6	42.6	42.2	42.1	40.1	38.5	38.6	39.6	41.0	42.2	43.0	42.3
12	42.9	43.0	42.8	42.5	42.5	42.1	42.2	40.2	37.9	37.5	40.2	43.0	44.4	44.7	44.3
13	43.0	42.6	42.6	42.7	42.6	42.3	42.6	40.1	37.2	36.2	39.3	41.1	44.9	45.6	45.0
14	42.8	43.1	42.8	42.8	42.5	42.7	42.5	39.5	36.8	37.1	41.2	44.3	46.3	45.4	44.1
15	43.0	44.1	43.3	43.3	43.3	42.9	42.7	40.3	38.2	37.9	39.5	43.3	45.9	46.7	44.9
16*	42.6	42.7	42.6	42.6	42.3	42.1	41.9	40.3	38.6	37.4	38.4	41.0	43.7	44.8	44.1
17*	42.3	42.3	42.4	42.4	42.4	42.1	41.6	39.9	38.0	37.1	37.5	40.3	42.9	44.5	45.0
18	42.4	42.3	42.5	42.5	42.3	42.1	41.7	39.6	37.6	36.3	40.0	42.9	45.1	45.3	44.2
19	42.6	42.8	43.6	42.8	42.5	41.5	41.7	40.5	39.6	39.0	40.8	43.5	44.8	45.2	45.0
20	41.6	41.3	41.0	40.6	40.8	41.0	41.1	40.1	38.9	38.3	39.4	42.7	44.1	44.8	44.3
21	41.8	41.7	41.6	41.7	41.6	41.1	41.3	40.4	38.8	38.0	38.6	41.5	43.9	45.7	45.2
22*	42.2	42.1	42.3	42.3	42.3	42.2	42.1	41.2	39.7	38.8	38.9	41.6	42.5	43.2	43.5
23*	42.7	42.7	42.9	42.9	43.0	42.7	41.8	40.0	38.1	36.9	37.6	41.4	44.1	45.1	45.1
24	43.5	43.5	43.5	43.3	43.3	43.1	42.8	41.2	39.4	37.9	37.8	39.8	41.4	42.4	43.6
25*	43.2	43.3	43.2	43.2	42.9	42.4	41.9	40.3	38.3	38.2	40.6	44.3	46.4	46.9	45.8
26	42.2	42.3	42.5	42.4	42.3	42.3	42.1	40.1	37.5	36.5	38.6	41.5	44.1	45.1	44.5
27	42.1	42.1	42.1	42.1	42.2	42.1	41.4	39.4	37.9	38.2	40.3	43.0	45.1	45.5	45.3
28	41.8	41.7	41.7	41.5	41.9	41.9	41.9	40.6	38.7	37.9	40.4	43.6	45.6	46.4	45.6
29*	42.9	42.9	42.9	42.5	42.3	42.0	41.5	39.3	36.7	36.6	38.9	41.8	44.2	44.9	45.0
30	42.3	42.5	42.6	42.7	42.6	42.7	42.9	41.2	39.3	38.9	40.2	42.9	45.0	45.6	44.8
31	41.5	41.4	42.0	42.0	41.9	41.6	41.3	40.4	38.5	37.7	39.9	43.2	44.9	44.9	44.7
Mean.....	42.4	42.5	42.5	42.4	42.3	42.1	42.0	40.4	38.5	37.9	39.4	42.2	44.2	44.9	44.6
Mean*.....	42.5	42.5	42.6	42.5	42.4	42.2	41.9	40.4	38.5	37.9	39.1	42.1	44.2	45.0	44.8

FEBRUARY, 1906.

1° WEST PLUS TABULAR MINUTES.

1	42.3	42.3	42.6	42.2	41.9	41.7	43.0	42.5	39.4	37.4	38.3	41.2	43.7	45.9	46.1
2*	42.3	42.3	42.2	42.2	42.1	42.4	43.0	42.0	40.1	37.7	38.5	41.1	43.2	44.5	44.8
3	43.2	43.4	43.1	42.5	42.8	42.5	42.8	41.4	39.3	37.1	38.2	41.5	44.9	46.9	47.2
4*	43.6	43.6	43.4	43.5	43.3	43.5	43.7	42.5	40.7	38.8	38.1	38.9	40.8	42.7	43.7
5	42.6	42.8	43.3	43.0	42.8	43.4	43.4	42.0	40.7	38.8	38.5	(40.0)	(42.1)	(43.6)	(44.3)
6	43.0	43.5	43.0	42.6	42.5	42.6	43.4	44.3	43.0	41.6	41.4	41.4	41.9	42.3	42.6
7	42.7	42.5	42.6	42.6	42.4	43.4	43.7	43.4	42.4	41.5	40.8	41.7	43.1	44.1	43.9
8*	42.6	42.7	42.9	43.2	42.6	42.6	43.1	42.7	41.4	39.6	38.7	39.9	41.5	42.7	42.7
9	43.0	43.0	43.0	42.8	43.6	42.8	43.4	42.5	41.6	40.5	41.3	42.1	42.7	43.1	43.6
10*	43.1	43.1	43.6	42.8	42.8	43.4	43.6	42.9	42.1	41.0	41.2	42.2	43.5	44.6	44.5
11	43.4	43.3	43.3	43.2	43.1	43.1	44.1	43.6	41.9	40.9	40.9	41.6	41.9	42.6	42.5
12*	43.5	43.4	43.5	43.4	43.2	42.9	43.3	42.1	40.8	39.8	39.9	41.8	43.6	44.3	44.7
13*	43.5	43.5	43.5	43.5	43.1	42.9	42.8	41.2	39.8	38.6	39.6	42.7	45.0	45.9	46.0
14*	43.6	43.6	43.6	43.7	43.7	43.2	43.1	41.6	39.7	38.5	38.7	40.8	42.3	43.5	44.4
15	43.2	43.2	43.1	43.0	42.8	42.4	43.5	42.6	42.2	(40.9)	(41.0)	(42.3)	(43.8)	(45.2)	(45.9)
16	42.0	42.2	42.4	42.5	42.3	42.5	42.8	41.5	39.8	38.7	38.2	39.6	41.6	43.2	44.4
17*	42.5	42.7	43.0	42.9	42.9	42.9	43.6	43.3	41.7	40.7	39.8	40.0	40.6	42.0	43.2
18	42.7	42.8	42.8	42.9	42.9	43.0	43.0	42.0	40.3	39.1	39.4	40.4	41.7	42.9	44.0
19	42.9	42.1	42.7	43.0	43.1	42.9	42.9	42.8	39.6	40.4	41.0	40.7	42.5	43.9	44.9
20	43.5	43.6	43.6	43.4	43.3	43.4	43.7	42.8	40.8	38.8	38.3	39.0	39.9	41.7	43.0
21*	43.6	43.8	43.6	43.4	43.2	42.8	42.8	41.8	40.1	38.6	38.1	39.4	41.1	42.8	45.0
22*	42.9	43.0	43.0	43.0	42.8	42.6	43.2	42.0	40.3	39.2	39.3	40.8	42.0	42.6	42.7
23	43.6	43.2	43.3	43.1	43.1	43.3	42.7	41.8	39.7	39.6	40.1	41.7	43.5	45.8	47.1
24	43.4	43.6	43.8	43.4	44.0	43.1	44.2	43.6	41.4	42.3	42.8	43.8	44.1	45.4	46.1
25	42.0	42.6	42.9	42.7	43.4	44.2	43.8	42.1	40.6	38.5	38.6	40.2	42.7	45.0	45.8
26	40.8	42.5	44.5	43.5	43.0	43.1	43.0	42.6	41.1	40.6	41.0	42.0	43.0	43.8	44.9
27	43.2	43.5	43.3	43.4	43.5	43.1	43.4	41.9	40.2	38.9	39.1	40.7	42.3	44.5	46.0
28	43.5	43.8	43.5	45.2	43.5	43.4	44.1	44.1	41.9	40.2	39.4	40.4	42.3	44.7	45.8
Mean.....	42.9	43.1	43.2	43.1	43.0	43.0	43.3	42.5	40.8	39.6	39.6	41.0	42.5	43.9	44.6
Mean*.....	43.1	43.2	43.2	43.2	43.0	42.9	43.2	42.2	40.7	39.2	39.2	40.8	42.4	43.6	44.2

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

JANUARY, 1906.

1° WEST PLUS TABULAR MINUTES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
										<i>h</i>	<i>m</i>	<i>s</i>	<i>h</i>	<i>m</i>	<i>s</i>		
(43.7)	42.9	42.7	42.4	42.1	41.9	41.8	41.8	42.0	41.8	14	00	44.7	9	00	37.2	7.5	1
44.0	43.8	43.0	42.2	42.0	41.8	41.8	42.2	42.0	42.3	14	00	45.6	9	38	38.0	7.6	2
44.7	43.3	42.7	42.4	41.9	41.8	41.8	41.9	41.8	42.2	14	18	45.8	10	15	38.0	7.8	3
44.1	43.5	42.8	42.5	42.1	42.1	42.2	42.3	42.4	42.3	13	48	45.7	10	00	39.0	6.7	4
43.1	42.9	42.3	42.3	42.1	42.0	41.2	41.8	41.7	42.0	13	30	45.1	10	36	37.5	7.6	5
44.5	43.3	42.7	42.6	42.2	42.2	42.3	42.3	42.4	42.4	14	36	45.9	9	49	38.9	7.0	6
44.0	43.5	43.1	42.9	42.8	42.5	42.0	41.9	42.0	41.9	14	46	44.2	10	14	38.1	6.1	7
43.8	42.9	42.5	42.3	42.1	42.0	42.1	42.0	42.2	42.0	15	00	44.9	9	29	38.1	6.8	8
43.4	42.3	42.4	42.0	41.9	42.0	42.2	42.5	42.6	42.0	14	52	43.9	9	27	37.8	6.1	9
43.1	42.3	42.3	42.5	42.5	42.1	42.4	42.5	42.8	42.0	13	00	43.8	9	25	37.4	6.4	10
42.3	42.3	42.6	42.5	42.3	42.4	42.3	42.4	42.6	41.9	14	00	43.0	9	18	38.3	4.7	11
43.8	43.1	42.8	42.6	42.3	42.3	42.3	42.4	42.6	42.3	14	09	44.8	9	41	37.2	7.6	12
44.0	42.9	42.4	42.3	42.2	42.1	42.1	42.4	42.6	42.1	14	00	45.6	9	41	35.6	10.0	13
43.2	42.7	42.5	42.1	41.9	41.8	41.5	42.1	42.6	42.3	13	14	46.6	9	35	35.9	10.7	14
43.6	42.3	42.3	41.7	42.0	41.9	41.9	41.8	42.0	42.4	14	00	46.7	9	31	37.6	9.1	15
43.0	42.8	43.0	43.0	42.7	42.3	42.1	42.2	42.2	42.0	14	00	44.8	10	18	37.3	7.5	16
44.1	43.5	43.5	43.2	42.9	42.5	42.6	42.4	42.4	42.0	14	46	45.0	10	19	36.9	8.1	17
43.0	42.3	42.6	42.5	42.0	41.7	41.8	41.8	42.0	41.9	13	34	45.5	10	00	36.3	9.2	18
44.8	44.4	43.4	43.4	42.7	42.3	42.2	42.1	41.8	42.6	14	00	45.2	9	43	39.0	6.2	19
43.9	43.5	43.3	43.1	42.7	42.3	42.1	42.0	41.8	41.9	14	00	44.8	10	00	38.3	6.5	20
44.2	43.5	43.1	42.7	42.5	42.3	42.3	42.3	42.1	42.0	14	16	45.8	10	20	37.7	8.1	21
43.5	43.2	43.0	42.9	42.5	42.3	42.4	42.3	42.7	42.1	15	23	43.7	10	40	38.4	5.3	22
44.7	44.1	43.5	43.5	43.3	43.3	43.3	43.5	43.5	42.5	15	00	45.3	10	13	36.7	8.6	23
44.0	44.2	43.5	43.2	43.2	42.9	42.9	43.1	43.2	42.4	16	00	44.0	10	34	37.4	6.6	24
44.5	43.6	43.0	42.5	42.5	42.5	42.4	42.4	42.2	42.8	14	14	47.3	9	28	38.0	9.3	25
44.2	44.4	43.8	43.5	42.8	42.5	42.2	42.2	42.3	42.2	14	00	45.2	10	00	36.5	8.7	26
44.5	44.2	43.5	43.0	42.8	42.6	42.1	42.0	42.2	42.3	14	36	45.7	9	30	37.7	8.0	27
44.7	44.2	43.9	43.8	43.4	43.0	42.9	42.7	42.7	42.6	14	00	46.5	10	00	37.9	8.6	28
44.3	44.1	43.3	43.1	42.6	42.3	42.4	42.5	42.2	42.1	14	00	45.0	9	34	36.2	8.8	29
43.9	43.5	43.1	42.9	42.7	42.4	42.0	41.9	41.7	42.5	14	00	45.6	10	00	38.9	6.7	30
45.1	45.2	42.3	43.9	43.0	42.9	42.5	42.2	42.2	42.3	13	32	45.5	10	00	37.7	7.8	31
43.9	43.4	42.9	42.8	42.5	42.3	42.2	42.3	42.3	42.2							7.6	
44.0	43.4	43.0	42.8	42.5	42.3	42.4	42.5	42.5	42.2							7.5	

FEBRUARY, 1906.

1° WEST PLUS TABULAR MINUTES.

45.3	44.7	44.3	43.8	43.3	42.9	42.4	42.2	42.2	42.6	15	44	46.2	10	08	37.1	9.1	1
44.9	44.7	44.3	43.9	43.5	43.3	43.3	43.1	43.3	42.6	16	00	44.9	10	24	37.6	7.3	2
46.4	45.4	44.6	44.3	44.0	43.4	43.5	43.2	43.6	43.1	15	00	47.2	10	16	36.8	10.4	3
44.1	44.0	44.0	43.6	43.3	42.9	42.2	42.2	42.8	42.5	16	00	44.1	11	00	38.1	6.0	4
(44.5)	44.4	43.3	43.4	42.4	41.4	40.3	42.3	42.0	42.3	(16	00)	(44.5)	10	32	38.4	6.1	5
43.0	43.2	42.8	42.4	42.4	42.1	42.2	42.3	42.3	42.6	7	57	44.4	10	54	41.3	3.1	6
43.7	43.3	42.8	42.6	42.5	42.3	42.4	42.4	42.7	42.7	14	42	44.3	11	00	40.8	3.5	7
42.7	43.4	43.1	42.7	42.8	42.7	42.6	42.6	42.9	42.3	3	37	43.6	11	00	38.7	4.9	8
44.1	44.3	43.8	43.3	42.8	42.6	42.8	43.1	43.0	42.9	17	00	44.3	10	00	40.5	3.8	9
44.5	44.1	43.8	43.4	43.2	43.0	42.6	43.0	43.1	43.1	14	24	44.8	10	28	40.8	4.0	10
42.8	42.8	43.3	43.1	43.1	42.9	42.9	42.6	43.0	42.7	7	17	44.2	10	23	40.7	3.5	11
44.1	44.1	43.6	43.3	43.0	42.9	43.0	43.1	43.4	42.9	15	00	44.7	10	23	39.7	5.0	12
45.3	44.2	43.7	43.7	43.5	43.4	43.2	43.5	43.5	43.2	15	00	46.0	10	00	38.6	7.4	13
44.7	44.7	44.1	43.8	43.6	43.0	42.9	42.8	43.1	42.8	16	00	44.7	10	29	38.5	6.2	14
(45.6)	44.8	44.0	43.2	42.6	42.3	42.3	42.3	41.9	43.1	(15	00)	(45.9)	(10	00)	(40.9)	5.0	15
44.6	44.0	44.1	43.6	43.2	43.2	42.4	42.5	42.5	42.2	16	00	44.6	10	33	38.0	6.6	16
43.7	43.8	43.3	42.6	42.9	42.7	42.7	42.2	42.6	42.4	16	42	43.9	11	00	39.8	4.1	17
44.3	44.1	43.5	43.5	43.1	42.3	41.4	40.9	41.9	42.3	15	38	44.5	10	19	38.7	5.8	18
45.3	44.4	43.3	42.8	42.8	42.8	43.0	43.3	43.3	42.8	16	00	45.3	9	35	38.5	6.8	19
43.6	43.9	43.7	43.4	43.2	43.0	43.0	43.0	43.1	42.4	17	00	43.9	10	34	38.1	5.8	20
45.0	44.2	43.5	43.2	43.0	42.7	42.6	42.7	42.7	42.5	15	23	45.2	10	28	38.0	7.2	21
43.1	43.5	43.6	43.4	43.3	43.3	42.4	43.0	43.2	42.4	16	00	43.1	10	51	39.3	3.8	22
46.3	45.3	43.8	43.5	43.1	42.8	42.9	43.0	43.1	43.1	14	56	47.2	10	00	39.6	7.6	23
46.1	44.2	41.2	42.8	42.2	41.4	40.3	40.9	41.8	43.2	15	32	47.0	8	57	40.9	6.1	24
45.5	45.0	44.9	43.8	42.1	39.2	42.1	42.3	42.0	42.6	14	39	46.1	10	30	38.2	7.9	25
45.4	45.8	43.5	43.8	43.1	42.7	42.6	42.9	42.9	43.0	16	40	46.0	0	50	40.3	5.7	26
45.9	44.6	43.5	42.9	42.7	42.5	42.7	43.0	43.2	42.8	15	00	46.0	10	30	38.8	7.2	27
45.9	45.7	43.3	43.5	43.1	41.4	42.0	41.3	43.0	43.1	15	20	46.3	10	26	39.0	7.3	28
44.7	44.3	43.6	43.3	43.3	43.0	42.5	42.6	42.8	42.7							5.9	
44.2	44.1	43.7	43.4	43.2	43.0	42.5	42.8	43.1	42.7							5.6	

NOTE.—Values in parentheses were interpolated.

MARCH, 1906.

1° WEST PLUS TABULAR MINUTES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	43.1	42.9	43.1	43.5	43.3	43.0	43.2	41.1	40.3	39.8	40.5	41.9	43.2	45.1	46.0
2*	43.4	43.7	44.0	43.4	43.3	43.2	43.4	42.3	41.1	40.4	40.7	41.5	42.4	43.2	44.0
3	43.3	43.4	43.4	43.7	43.7	43.5	43.1	42.3	41.2	40.8	41.2	42.0	42.7	43.9	45.0
4	44.1	43.6	44.2	44.3	43.9	43.3	43.6	42.9	42.1	41.9	42.0	43.1	43.9	44.5	45.2
5	43.0	42.9	45.3	43.5	43.4	43.2	43.4	42.3	41.6	41.4	41.3	42.3	43.4	44.6	44.9
6	43.9	43.9	43.7	43.6	43.8	43.7	43.6	42.7	41.0	40.9	41.8	42.8	43.3	44.3	44.8
7	43.9	43.2	43.6	43.6	43.6	43.8	43.3	42.6	41.5	40.9	41.3	42.8	43.2	43.5	43.7
8	43.9	43.7	43.7	44.2	44.4	43.9	43.3	41.9	41.2	41.4	43.4	44.4	44.9	44.4	43.8
9	43.5	43.7	43.8	43.7	43.5	44.0	44.0	41.9	40.9	40.9	42.4	44.0	45.3	46.0	45.4
10*	44.2	44.1	45.1	45.2	44.1	44.0	43.4	41.5	41.0	41.9	42.9	43.7	44.6	45.1	45.3
11*	44.0	44.0	44.0	44.4	43.7	43.6	42.7	41.0	40.3	40.4	41.2	42.7	43.8	44.7	45.2
12	44.0	44.1	44.1	44.1	44.3	43.7	42.4	40.9	40.1	40.3	41.5	43.4	45.4	46.4	46.0
13	44.1	44.4	45.0	45.0	44.6	44.1	43.0	41.3	40.1	40.5	41.5	43.0	44.0	45.7	46.6
14	43.5	44.0	44.1	44.2	45.1	44.2	43.8	42.2	41.1	40.4	40.6	41.6	43.2	45.7	47.3
15	43.3	44.1	44.5	44.2	44.2	44.3	44.3	43.4	42.0	41.6	41.1	41.6	42.7	43.9	44.9
16	43.5	43.8	43.9	44.1	44.2	44.1	44.2	43.2	42.2	41.4	41.0	41.1	42.6	44.3	44.5
17	42.5	43.0	43.4	43.6	43.6	44.2	44.8	43.6	42.0	40.9	40.6	40.8	41.9	42.5	43.7
18	43.3	43.5	42.6	43.0	43.8	44.2	43.9	43.9	42.9	43.1	43.8	44.2	44.9	45.5	45.3
19	43.0	43.0	43.0	43.1	43.2	43.1	43.1	42.6	42.5	42.5	43.4	44.3	45.3	45.6	45.0
20*	43.2	42.8	42.8	42.8	42.8	42.6	41.7	40.3	39.5	39.5	40.3	42.2	44.1	44.7	44.4
21*	43.4	43.5	43.3	43.2	43.1	42.9	42.0	41.1	40.8	40.9	42.1	42.9	43.7	44.3	44.3
22*	43.9	43.8	43.7	43.7	43.5	43.2	42.5	42.6	42.7	42.7	42.9	43.1	44.5	45.7	45.4
23*	44.0	44.0	44.1	44.0	43.7	43.0	42.6	42.4	43.0	42.9	43.1	43.3	44.5	45.8	45.6
24	43.5	43.1	43.3	43.2	43.1	42.8	42.1	42.8	43.7	43.9	44.4	44.8	45.6	45.7	45.6
25	43.3	43.0	42.8	44.0	42.8	42.3	42.1	41.5	41.1	41.5	42.8	43.8	44.6	45.1	44.9
26	42.8	42.8	42.9	42.9	43.0	43.0	41.9	40.5	39.8	40.2	41.5	43.5	44.9	45.6	45.7
27	44.9	44.5	44.6	44.2	44.1	43.6	42.8	41.4	41.4	41.0	41.5	43.4	45.0	46.1	45.8
28*	44.2	44.3	44.4	44.5	44.4	43.7	41.5	40.0	39.6	40.6	42.3	44.1	45.5	46.0	46.0
29*	43.9	43.9	43.4	43.5	44.3	43.7	43.9	41.9	42.1	42.4	43.1	44.6	46.5	47.8	47.1
30*	44.2	44.4	44.4	44.4	44.3	44.1	42.4	41.7	41.8	42.5	43.9	45.8	47.4	47.5	46.6
31	43.8	43.8	43.8	43.6	43.7	43.8	42.9	42.4	42.8	43.4	44.4	46.3	47.4	47.3	46.5
Mean....	43.6	43.6	43.8	43.8	43.8	43.5	43.1	42.0	41.4	41.4	42.1	43.2	44.3	45.2	45.3
Mean*....	43.8	43.8	43.9	43.9	43.7	43.4	42.6	41.5	41.2	41.4	42.2	43.4	44.7	45.5	45.4

APRIL, 1906.

1° WEST PLUS TABULAR MINUTES.

1*	43.9	43.9	43.9	43.6	43.6	42.9	43.3	42.5	42.2	42.0	42.3	42.9	43.6	44.6	45.3
2	44.0	43.9	44.0	43.9	44.0	43.8	42.5	41.3	41.3	41.8	42.8	44.8	46.0	46.6	47.4
3	44.4	44.5	44.5	44.8	44.9	44.4	43.1	42.6	43.1	43.3	43.4	43.8	44.4	45.1	45.5
4	44.2	43.9	44.0	44.2	44.3	43.4	42.3	42.3	42.7	43.3	44.0	44.6	46.2	47.3	47.7
5*	44.3	44.3	44.3	44.2	44.3	44.3	43.5	43.5	43.7	44.6	45.4	47.0	48.4	48.4	47.9
6*	44.2	44.1	44.1	44.2	44.2	43.5	42.2	41.8	42.0	42.4	43.9	45.3	47.0	47.8	47.3
7	44.3	44.4	44.3	44.2	44.1	43.6	42.5	42.4	43.4	44.2	44.4	45.5	46.9	47.7	48.1
8	44.6	44.6	44.6	44.4	44.3	43.5	42.2	42.2	42.4	43.1	44.2	45.4	47.2	48.3	47.6
9	44.5	44.6	43.5	43.6	44.2	44.6	43.8	41.3	41.7	41.6	42.4	45.0	47.4	49.0	49.0
10	45.6	44.2	44.0	44.3	44.2	43.6	42.2	41.0	39.9	40.5	42.3	45.2	47.2	48.3	48.2
11	45.0	43.8	43.7	44.1	43.5	42.8	41.1	39.3	39.2	39.9	41.8	44.5	45.8	46.9	47.5
12	44.7	44.5	44.6	44.9	43.5	43.5	41.5	39.5	38.1	38.0	39.9	42.3	44.3	45.4	45.4
13	44.8	44.7	44.8	44.7	44.4	43.9	42.0	40.3	38.9	39.5	42.0	44.4	46.3	47.2	47.3
14*	44.3	44.4	44.1	44.2	44.1	43.4	41.7	40.7	40.7	40.3	40.9	42.1	43.0	44.1	45.2
15*	44.2	44.1	44.2	44.3	44.3	44.0	42.8	42.1	41.5	41.4	41.6	43.1	44.3	44.8	45.4
16*	44.4	44.4	44.4	44.3	44.1	43.9	42.0	41.9	42.2	42.1	43.1	44.1	45.8	46.9	47.4
17	44.5	44.5	44.3	44.2	44.1	44.1	43.0	43.1	43.0	42.1	41.9	43.1	44.8	45.4	45.9
18	44.9	44.9	44.8	44.6	44.5	43.9	42.8	42.2	42.4	43.5	44.4	45.3	46.4	46.6	46.6
19*	44.8	44.3	44.3	44.2	44.4	43.4	41.7	40.4	40.3	40.8	41.3	42.9	45.3	46.5	47.0
20*	45.1	45.0	44.9	44.8	44.5	43.7	42.2	42.3	42.1	43.2	44.4	45.9	46.9	47.0	46.8
21*	44.8	44.8	44.8	44.8	44.5	43.9	42.9	42.8	43.4	43.9	44.7	45.7	46.8	47.5	47.0
22	44.3	44.5	44.4	43.7	43.5	42.8	42.7	42.8	43.8	45.6	46.2	47.0	47.8	48.0	47.3
23	44.9	44.8	44.8	44.7	44.2	42.8	41.3	41.8	42.7	43.8	45.3	46.6	48.2	48.2	47.9
24	44.3	43.9	43.4	43.2	43.0	42.8	42.3	42.9	42.3	42.1	43.4	44.8	45.6	46.8	47.4
25	44.5	45.2	44.4	44.4	44.2	44.0	42.8	41.3	41.3	41.8	43.4	44.1	44.8	45.6	45.7
26	44.8	44.9	44.9	44.8	44.6	43.5	42.1	42.4	43.0	44.2	45.3	46.4	47.5	47.6	46.6
27*	44.6	44.5	44.4	44.4	44.2	43.5	42.3	43.3	44.5	44.4	44.6	44.8	45.2	45.7	45.8
28	44.8	44.8	44.7	44.7	44.5	43.4	41.6	41.7	42.6	42.6	44.7	45.2	45.9	47.4	48.2
29	44.3	44.3	44.4	44.1	43.9	43.0	42.1	42.2	42.3	43.8	44.3	45.2	45.9	46.3	46.5
30	44.3	45.6	44.4	44.1	43.9	42.8	42.2	41.9	42.0	43.2	43.9	45.2	45.6	46.0	45.6
Mean....	44.5	44.5	44.3	44.3	44.2	43.6	42.4	41.9	42.0	42.4	43.4	44.7	46.0	46.8	46.9
Mean*....	44.5	44.4	44.3	44.3	44.2	43.6	42.5	42.1	42.3	42.5	43.2	44.4	45.6	46.3	46.5

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF DECLINATION.

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MARCH, 1906.

1° WEST PLUS TABULAR MINUTES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum		Minimum		Range	Day
										<i>h</i>	<i>m</i>	<i>h</i>	<i>m</i>		
46.0	45.3	43.7	44.2	43.3	43.2	43.0	43.2	43.2	43.1	15	00	46.0	9 48	39.7	6.3
44.4	45.0	44.0	43.7	43.4	43.1	43.1	43.1	43.2	43.0	17	00	45.0	10 00	40.4	4.6
45.5	45.7	44.3	43.7	43.7	43.5	42.8	42.2	42.5	43.2	17	00	45.7	10 00	40.8	4.9
44.8	44.0	43.9	43.7	43.1	43.0	41.8	42.5	42.7	43.4	15	22	45.5	10 28	41.6	3.9
45.3	45.2	44.3	43.8	43.9	43.9	43.8	43.7	43.8	43.5	16	00	45.3	10 25	41.4	3.9
45.3	45.7	45.2	44.4	43.8	42.9	42.9	41.4	43.4	43.4	16	00	45.3	10 00	40.9	4.4
43.9	43.9	43.4	43.6	43.6	43.3	43.3	43.4	44.4	43.2	24	00	44.4	9 16	40.3	4.1
43.4	43.1	41.7	42.9	42.8	42.7	43.6	43.4	43.4	43.3	13	00	44.9	9 00	41.2	3.7
44.6	44.0	43.6	43.0	42.7	42.7	43.3	43.5	44.5	43.5	14	00	46.0	9 45	40.5	5.5
45.5	45.0	44.5	43.5	43.5	43.6	43.7	43.7	44.3	43.9	16	00	45.5	9 00	41.0	4.5
45.2	44.9	44.1	43.4	43.4	43.4	43.3	43.4	43.5	43.3	15	30	45.2	9 30	40.2	5.0
45.0	44.4	44.2	42.7	42.8	42.7	42.7	43.4	43.4	43.4	14	00	46.4	9 23	40.1	6.3
46.0	45.5	43.8	43.5	43.4	42.9	42.8	43.1	43.1	43.6	15	25	46.7	9 19	39.7	7.0
47.1	46.1	44.6	44.1	43.7	43.7	43.4	43.3	43.4	43.8	15	00	47.3	10 26	40.3	7.0
45.2	45.0	44.5	44.0	43.6	43.2	43.2	43.4	43.5	43.6	16	00	45.2	11 00	41.1	4.1
44.3	44.3	44.1	44.0	43.8	42.8	42.4	42.2	42.3	43.3	15	00	44.5	11 00	41.0	3.5
44.0	44.1	44.0	43.7	43.6	43.3	43.3	43.3	43.3	43.1	7	00	44.8	11 00	40.6	4.2
44.7	44.3	43.8	43.7	43.4	43.3	43.0	43.0	43.2	43.8	14	00	45.5	9 09	42.4	3.1
44.2	43.9	43.9	43.5	43.4	43.2	43.0	43.3	43.0	43.5	14	00	45.6	9 00	42.5	3.1
44.3	44.4	44.2	44.0	43.8	43.5	43.3	43.3	43.3	42.8	14	00	44.7	9 32	39.3	5.4
44.2	44.5	44.3	44.1	44.1	44.1	43.9	43.9	43.8	43.3	14	14	44.5	9 00	40.8	3.7
44.9	44.8	44.3	44.3	44.1	44.1	44.0	44.2	44.0	43.9	14	00	45.7	7 32	42.0	3.7
44.4	43.8	44.1	44.1	44.0	43.8	43.7	43.8	43.7	43.8	14	31	46.0	7 41	42.2	3.8
45.3	44.7	44.6	44.8	42.7	43.0	42.7	42.7	43.1	43.8	14	20	46.0	6 58	42.0	4.0
44.2	43.7	43.7	43.6	43.6	43.6	42.8	43.4	42.5	43.2	14	00	45.1	9 24	40.9	4.2
45.5	45.2	44.9	44.9	44.8	44.8	44.7	44.7	44.8	43.6	15	00	45.7	9 00	39.8	5.9
44.8	44.8	44.8	44.7	44.5	44.0	42.7	43.4	44.1	43.8	14	00	46.1	8 24	40.7	5.4
45.6	45.1	44.7	44.6	44.5	44.5	44.3	43.8	44.0	43.8	14	00	46.1	9 00	39.6	6.5
46.1	45.1	44.9	44.7	44.6	44.4	44.1	43.4	43.9	44.3	14	00	47.9	8 00	41.9	6.0
45.6	45.1	44.7	44.7	44.7	44.4	44.2	44.2	44.1	44.5	13	35	47.9	8 30	41.6	6.3
45.3	44.5	44.3	44.4	44.3	44.2	43.9	43.9	44.0	44.4	13	00	47.4	8 30	42.3	5.1
45.0	44.7	44.2	43.9	43.7	43.5	43.3	43.3	43.5	43.6						4.8
45.0	44.8	44.4	44.1	44.0	43.9	43.8	43.7	43.8	43.7						5.0

APRIL, 1906.

1° WEST PLUS TABULAR MINUTES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum		Minimum		Range	Day
										<i>h</i>	<i>m</i>	<i>h</i>	<i>m</i>		
45.3	44.8	44.4	44.3	44.3	44.3	44.3	44.2	44.0	43.8	15	30	45.5	9 48	41.8	3.7
46.8	45.9	45.2	45.2	45.3	45.2	44.6	43.7	44.4	44.4	15	00	47.4	8 40	41.1	6.3
45.5	45.4	45.0	44.7	44.6	44.5	44.4	44.5	44.3	44.4	16	00	45.5	8 30	42.3	3.2
46.9	45.7	45.1	44.9	44.6	44.4	44.3	44.1	44.2	44.5	15	00	47.8	6 42	41.8	6.0
46.2	44.3	43.9	44.1	44.2	44.2	44.2	44.3	44.3	44.9	13	17	48.6	7 31	43.3	5.3
46.0	44.3	44.1	44.2	44.4	44.5	44.4	44.4	44.4	44.4	14	00	47.8	8 00	41.8	6.0
47.0	45.3	44.5	44.6	44.8	44.8	44.8	44.8	44.8	44.8	14	33	48.2	7 44	42.2	6.0
46.4	45.3	44.4	44.6	44.8	44.8	44.6	44.4	44.5	44.7	14	00	48.3	8 00	42.2	6.1
47.7	45.7	44.6	44.7	43.3	43.7	44.3	44.2	44.4	44.5	14	58	49.1	8 09	40.8	8.3
47.7	46.9	45.9	45.0	44.5	44.3	44.2	44.1	43.9	44.5	15	15	48.5	9 08	39.7	8.8
46.4	45.1	44.6	44.4	44.4	44.2	44.1	44.0	44.4	43.8	15	00	47.5	8 42	39.0	8.5
44.7	43.9	43.9	44.1	44.3	44.4	44.4	44.5	44.5	43.3	14	16	45.6	9 39	37.8	7.8
46.1	45.1	44.5	44.5	44.7	44.3	44.3	44.3	44.1	44.0	14	18	47.5	9 25	38.9	8.6
44.8	44.3	44.0	44.6	44.6	44.6	44.3	44.2	44.2	43.4	15	00	45.2	10 09	40.1	5.1
45.2	44.8	44.6	44.9	44.8	44.7	44.5	44.4	44.4	43.9	15	00	45.4	9 34	41.2	4.2
47.0	46.1	45.6	45.6	45.6	45.3	44.9	44.7	44.8	44.6	15	00	47.4	7 34	41.6	5.8
45.5	44.8	44.9	45.2	45.5	45.5	45.4	45.2	45.0	44.4	15	00	45.9	10 43	41.7	4.2
45.9	45.2	45.6	45.7	45.6	45.4	45.4	44.9	45.0	44.9	14	00	46.6	8 30	42.1	4.5
46.4	45.9	45.8	45.9	45.7	45.6	45.4	45.5	45.3	44.3	14	38	47.2	8 24	39.9	7.3
45.8	45.3	45.4	45.4	45.2	45.4	45.3	45.3	44.9	44.9	13	30	47.1	8 19	41.9	5.2
45.9	44.9	45.1	45.1	45.2	45.1	45.1	45.0	44.8	44.9	14	28	47.9	7 21	42.7	5.2
45.9	44.7	44.8	43.9	44.9	45.1	45.1	44.9	44.9	44.9	13	36	48.2	6 25	42.4	5.8
47.2	45.8	45.5	45.3	45.1	44.9	44.6	44.6	44.4	45.0	13	30	48.7	6 52	40.8	7.9
46.9	45.5	45.2	45.8	45.7	45.4	45.4	44.9	45.2	44.5	15	23	47.6	6 27	41.7	5.9
45.4	45.0	44.7	44.9	45.1	45.1	44.9	44.8	44.8	44.3	15	00	45.7	8 50	41.1	4.6
45.6	44.3	44.0	44.3	44.7	44.7	44.7	44.5	44.2	44.7	13	14	47.8	7 24	41.9	5.9
45.6	44.7	44.6	44.7	44.8	44.8	44.7	44.8	44.8	44.6	15	00	45.8	7 00	42.3	3.5
47.0	45.5	44.9	44.4	44.8	43.4	44.6	44.0	43.9	44.6	14	47	48.5	7 26	41.4	7.1
46.1	45.2	44.5	44.8	44.8	44.7	43.7	44.1	44.1	44.4	14	41	46.8	7 29	41.7	5.1
45.6	45.1	45.1	44.6	44.7	44.5	44.3	44.1	44.1	44.3	14	00	46.0	7 17	41.5	4.5
46.2	45.2	44.8	44.8	44.8	44.7	44.6	44.5	44.5	44.4						5.9
45.8	44.9	44.8	44.9	44.9	44.8	44.7	44.7	44.6	44.4						5.1

MAY, 1906.

1° WEST PLUS TABULAR MINUTES.

Day	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	13h	14h	15h
1*	44.4	44.5	44.2	44.0	43.6	42.8	41.3	41.4	42.8	44.2	45.7	46.8	47.5	47.3	46.5
2*	44.2	44.2	44.2	44.1	43.9	43.1	42.4	43.2	44.4	45.7	45.9	45.7	45.6	45.3	44.7
3*	44.3	44.2	44.0	44.1	43.7	42.7	41.6	41.9	42.8	43.9	44.7	45.4	45.2	44.7	44.8
4*	44.6	44.4	44.4	44.4	44.3	43.6	42.7	43.4	44.7	46.0	46.4	46.4	46.3	45.8	44.8
5	44.6	44.5	44.4	44.3	44.0	43.7	43.4	45.0	46.0	47.8	48.6	48.7	48.5	47.6	47.0
6	44.5	44.5	44.3	43.9	43.7	42.3	40.9	42.1	42.9	44.6	46.4	47.3	47.2	47.2	46.5
7*	44.7	44.6	44.4	44.1	43.7	42.7	40.7	40.2	41.7	43.7	44.5	44.4	44.6	45.0	45.4
8	44.6	44.5	44.2	44.1	43.9	42.9	41.2	41.5	43.2	44.2	46.2	46.9	46.9	46.7	46.4
9	44.4	43.9	43.6	43.4	43.1	41.9	40.7	40.5	41.0	43.4	44.5	45.5	46.5	46.9	46.7
10*	45.1	45.0	44.9	44.9	44.6	43.6	42.2	41.3	41.9	43.1	44.4	45.5	46.6	48.0	48.1
11	45.0	44.6	44.4	44.4	44.2	43.6	41.3	40.8	40.8	42.8	44.5	45.4	46.1	47.1	47.1
12	44.9	45.0	45.0	44.8	44.5	43.8	42.6	42.0	42.5	43.5	44.2	44.2	45.3	46.2	46.1
13	43.9	44.0	43.8	43.7	43.5	43.1	42.4	42.7	44.1	44.1	44.1	44.1	44.8	44.7	44.9
14	42.6	42.7	42.9	43.2	42.3	41.4	41.4	41.9	42.8	44.3	44.7	46.4	46.4	46.4	46.2
15	44.5	44.2	42.8	42.4	44.1	43.3	43.7	45.5	47.4	47.6	48.2	48.7	49.2	48.9	48.3
16	45.3	45.2	45.0	44.9	44.7	44.3	43.6	44.4	45.5	45.9	46.2	46.4	46.9	46.5	46.4
17	45.6	45.8	45.3	45.0	44.6	43.7	43.7	45.1	47.0	48.6	49.1	48.2	48.2	48.1	47.4
18	45.7	45.2	45.1	44.9	44.5	43.7	42.8	43.0	44.8	46.2	46.4	47.1	47.3	47.4	46.6
19	45.3	44.9	44.9	44.8	44.1	42.3	41.3	42.7	45.2	47.8	48.9	49.9	50.4	50.3	49.1
20	44.1	43.8	46.1	45.1	43.6	42.2	39.7	38.4	39.1	41.7	44.5	46.5	47.6	48.7	49.4
21	45.0	44.8	44.8	44.7	44.1	42.0	40.2	39.9	40.4	41.8	43.5	44.8	47.1	48.5	48.2
22	45.6	45.6	45.3	45.2	44.7	43.5	41.9	41.2	42.4	43.1	45.1	46.5	47.5	48.0	47.9
23	45.6	45.4	45.1	44.7	44.2	42.6	41.5	40.8	41.7	43.5	45.3	46.8	47.5	47.8	47.1
24	45.1	45.5	44.5	43.9	43.8	43.2	41.9	41.5	42.6	44.7	45.4	46.3	46.5	46.8	47.2
25*	44.8	44.5	44.3	44.3	44.5	43.6	41.3	41.5	42.0	43.4	45.2	46.1	46.1	46.3	46.6
26*	45.6	45.2	45.1	44.9	44.7	43.2	41.6	41.5	43.1	45.2	46.4	46.4	47.4	48.6	48.4
27	45.3	45.1	45.1	44.8	44.3	43.8	42.4	42.1	42.0	43.4	45.6	46.6	47.4	48.9	48.9
28	45.4	45.0	45.3	45.7	45.1	44.1	42.1	41.8	42.8	43.7	44.3	45.2	47.0	48.4	48.4
29*	45.3	45.2	45.1	45.0	44.6	43.2	41.3	40.4	40.5	42.2	44.1	45.5	46.1	46.2	45.9
30*	45.6	45.6	45.5	45.4	45.0	43.4	41.2	40.4	41.3	43.0	45.4	46.2	47.0	47.3	47.4
31	45.1	45.1	45.1	44.8	44.6	43.9	42.7	42.3	43.5	44.2	45.0	46.0	46.9	47.2	46.6
Mean....	44.9	44.7	44.6	44.4	44.1	43.1	41.9	41.9	43.0	44.4	45.6	46.3	46.9	47.2	46.9
Mean*....	44.9	44.7	44.6	44.5	44.3	43.2	41.6	41.5	42.5	44.0	45.3	45.8	46.2	46.4	46.3

JUNE, 1906.

1° WEST PLUS TABULAR MINUTES.

1	46.0	46.0	45.9	45.4	45.2	43.3	41.1	42.4	44.4	45.9	46.6	47.2	48.1	48.1	47.8
2	44.5	45.9	44.7	(44.5)	(44.3)	(43.0)	(41.5)	(41.7)	(43.9)	(45.7)	(47.1)	47.6	48.1	48.0	48.2
3	46.8	46.5	45.5	45.4	44.6	44.1	42.8	43.1	44.9	46.1	46.8	47.2	47.1	47.0	46.9
4	45.4	45.5	46.9	45.3	44.1	41.9	40.8	41.1	43.3	45.0	46.4	47.3	48.2	48.2	47.8
5*	45.8	45.7	45.5	44.9	44.4	43.1	41.6	42.4	44.8	47.2	48.9	49.4	49.5	48.9	48.4
6*	45.6	45.7	45.4	45.1	44.9	43.4	41.6	40.7	41.9	43.9	45.7	47.3	48.2	48.4	48.4
7	45.8	45.7	45.6	45.6	45.1	43.9	42.4	42.4	44.4	47.2	49.1	50.4	50.4	50.6	49.9
8	44.7	44.9	44.7	44.4	43.7	41.8	42.5	41.9	43.7	45.4	48.1	49.3	49.6	49.2	48.0
9	46.3	46.3	46.2	46.3	46.2	44.7	42.8	42.4	43.9	45.3	46.6	47.9	48.8	49.3	49.0
10	45.8	46.0	45.9	45.7	45.3	44.4	42.7	40.9	40.4	40.6	41.7	43.4	45.5	47.6	48.3
11	45.9	45.9	45.9	46.4	45.5	44.8	42.6	42.3	42.6	43.0	44.2	45.2	46.2	47.1	47.4
12	45.7	45.7	45.8	45.5	45.4	44.4	43.1	42.0	42.5	42.3	43.0	44.0	45.0	46.4	47.0
13	45.5	45.4	45.3	45.1	44.7	43.5	42.4	41.9	42.5	44.1	45.1	45.7	47.1	48.0	48.8
14	45.7	45.7	45.6	45.8	45.2	44.2	42.8	42.0	42.5	43.3	44.6	46.6	47.9	48.5	48.2
15*	45.8	45.6	45.5	45.2	44.9	44.4	42.8	41.6	41.5	42.6	44.2	45.5	46.1	46.9	48.0
16	44.5	43.9	44.4	44.3	44.1	43.6	42.4	42.7	44.8	46.1	47.4	47.2	47.1	47.6	47.6
17	45.6	45.4	45.1	44.9	44.7	44.4	44.7	44.7	44.3	44.0	44.3	45.0	45.9	46.1	46.0
18*	45.3	45.5	45.6	45.3	45.2	44.2	43.5	43.4	44.7	44.7	44.9	44.8	45.4	46.1	46.2
19*	45.9	45.9	45.8	45.5	45.3	44.3	42.8	41.9	42.6	43.9	45.2	46.1	46.3	46.1	45.3
20*	45.8	45.7	45.5	45.3	45.3	44.4	43.0	42.7	43.2	44.5	45.5	46.3	47.4	48.2	47.9
21*	46.3	46.3	46.2	45.8	45.6	43.9	42.0	41.4	43.0	44.3	45.9	46.7	46.8	47.2	46.8
22	46.3	46.1	46.0	45.9	45.8	44.5	42.6	41.9	43.2	45.4	47.1	48.4	48.7	49.4	48.9
23*	46.3	46.1	45.9	45.8	45.4	44.3	42.8	42.3	43.1	43.9	44.9	46.0	47.0	48.2	48.6
24	46.4	46.4	46.3	46.0	46.0	44.8	43.1	42.0	41.8	41.8	43.6	45.1	46.8	48.1	48.8
25	45.8	45.9	45.9	45.9	45.7	45.2	44.3	44.2	44.2	43.9	44.9	45.4	45.8	47.1	47.1
26	46.6	46.4	46.4	46.9	46.2	45.6	45.0	46.0	45.3	46.4	46.1	45.8	46.3	46.9	46.4
27*	46.5	46.3	46.3	45.9	45.7	45.3	43.1	43.0	44.0	44.9	45.4	45.8	46.0	47.2	47.5
28	46.5	46.5	46.5	46.2	45.8	45.0	43.6	44.0	45.9	47.2	48.2	48.6	48.0	47.9	47.6
29*	46.4	46.3	46.0	45.9	45.5	44.5	43.3	42.5	43.5	45.0	47.7	49.3	49.9	49.8	48.5
30	45.9	45.9	45.8	45.5	45.4	44.5	43.3	43.5	44.2	44.1	45.0	46.3	47.5	47.8	47.7
Mean....	45.8	45.8	45.7	45.5	45.2	44.1	42.8	42.5	43.5	44.6	45.8	46.7	47.4	47.9	47.8
Mean*....	46.0	45.9	45.8	45.5	45.2	44.2	42.6	42.2	43.2	44.5	45.8	46.7	47.3	47.7	47.6

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF DECLINATION.

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MAY, 1906.

1° WEST PLUS TABULAR MINUTES.

16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean	Maximum		Minimum		Range	Day
										h	m	h	m		
45.6	44.8	45.0	45.0	44.4	44.1	44.2	44.2	44.1	44.5	13	00	47.5	7	14	1
44.7	44.7	45.2	44.7	44.5	44.3	44.3	44.4	44.2	44.5	11	00	45.9	7	21	2
44.8	44.8	44.8	44.4	44.6	44.7	44.7	44.6	44.6	44.2	12	00	45.4	7	00	3
44.2	43.9	44.8	45.1	45.2	45.2	45.0	44.9	44.8	44.8	12	09	46.3	7	10	4
45.6	44.9	44.9	44.7	44.6	44.6	44.5	44.6	44.6	45.5	11	47	49.0	6	43	5
45.8	45.7	45.7	45.6	45.5	45.2	45.0	44.8	44.7	44.8	13	38	47.6	7	07	6
45.2	44.9	44.6	44.6	44.7	44.8	44.9	44.7	44.6	44.1	15	18	45.5	7	50	7
45.6	45.4	44.6	44.6	45.0	44.7	44.6	44.1	43.9	44.6	13	00	46.9	7	37	8
46.4	45.2	45.2	45.4	45.5	45.6	45.4	45.3	45.3	44.4	14	00	46.9	7	41	9
46.9	46.0	46.0	45.9	46.0	45.7	45.3	45.1	45.3	45.1	14	20	48.4	8	00	10
46.1	45.3	45.1	45.2	45.2	45.2	44.9	45.0	45.1	44.6	14	51	47.1	8	24	11
45.8	45.1	44.8	44.8	44.6	44.3	44.0	44.0	43.8	44.4	14	00	46.2	8	00	12
45.0	45.1	45.1	45.1	44.8	43.9	43.8	43.1	42.9	44.0	16	26	46.4	7	19	13
46.2	46.1	46.3	46.2	46.4	46.0	46.0	45.4	45.0	44.6	12	33	46.7	7	16	14
47.3	47.0	45.6	45.5	45.6	45.6	45.4	45.5	45.5	45.9	13	17	49.5	7	16	15
45.9	45.9	46.1	46.0	46.4	46.2	45.7	45.5	46.2	45.6	13	00	46.9	6	35	16
47.2	46.3	46.2	46.0	46.0	46.1	46.0	45.8	45.7	46.3	10	44	49.3	6	55	17
46.4	45.6	45.5	45.7	46.0	46.1	46.1	45.8	45.7	45.6	13	45	47.4	7	36	18
47.7	46.3	45.5	45.6	45.1	45.1	44.0	44.8	44.6	45.9	13	00	50.4	7	00	19
49.2	47.5	45.9	45.3	45.3	45.1	45.3	45.6	44.5	44.8	15	00	49.4	8	00	20
47.5	46.2	45.2	45.7	46.1	46.1	46.0	46.1	46.1	44.8	14	00	48.5	7	26	21
47.4	45.9	45.9	45.8	46.0	45.7	45.8	45.6	45.6	45.3	14	00	48.0	7	41	22
46.3	45.7	45.6	45.8	45.7	45.6	45.5	45.6	45.3	45.0	13	36	48.1	8	00	23
46.7	46.2	46.3	46.1	46.3	46.1	45.5	45.3	44.8	45.1	14	46	47.3	8	00	24
46.2	45.7	45.6	45.5	45.7	45.7	45.7	45.6	45.5	44.8	15	00	46.6	7	00	25
47.7	46.7	46.2	46.1	45.9	45.8	45.6	45.4	45.4	45.5	14	00	48.6	7	34	26
48.4	47.1	46.6	45.9	45.9	45.8	44.7	44.3	45.0	45.4	14	18	49.2	9	00	27
48.2	47.3	46.4	45.7	45.2	45.2	45.4	45.4	45.4	45.3	14	23	48.6	7	27	28
45.2	44.9	44.9	45.4	45.4	45.4	45.4	45.3	45.5	44.5	14	00	46.2	8	20	29
46.9	46.1	46.4	45.5	45.5	45.4	45.3	45.3	45.1	45.0	14	42	47.5	8	15	30
45.4	45.1	45.5	46.0	46.3	46.1	45.9	45.9	46.0	45.2	14	00	47.2	7	38	31
46.4	45.7	45.5	45.4	45.5	45.3	45.2	45.1	45.0	45.0						6.2
45.7	45.2	45.2	45.2	45.2	45.1	45.0	45.0	44.9	44.7						5.5

JUNE, 1906.

1° WEST PLUS TABULAR MINUTES.

16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean	Maximum		Minimum		Range	Day
										h	m	h	m		
47.1	47.3	46.5	46.5	45.2	44.8	43.5	44.1	43.2	45.5	13	35	48.4	7	00	1
48.4	47.9	47.4	46.9	46.1	46.2	46.0	45.9	45.9	45.8	15	15	48.7	(7 00)	(41.5)	2
46.6	46.0	46.1	46.1	45.2	45.8	44.8	44.6	45.0	45.6	10	23	47.2	7	05	3
47.1	46.3	45.8	45.7	45.8	45.2	45.0	45.7	46.0	45.4	12	42	48.3	7	48	4
47.6	46.9	46.1	45.4	45.8	45.4	45.9	45.5	45.9	46.0	13	00	49.5	7	18	5
47.6	46.4	45.6	45.4	45.4	45.7	45.9	45.9	45.9	45.4	13	42	48.5	8	00	6
48.5	46.2	45.6	45.6	44.9	44.7	44.8	44.9	44.2	46.1	14	00	50.6	7	31	7
46.8	46.2	45.8	46.4	45.9	45.6	45.8	46.0	46.8	45.7	13	25	49.9	6	17	8
48.8	47.5	46.4	46.2	46.2	46.0	45.9	45.8	45.8	46.3	14	00	49.3	7	47	9
47.8	46.6	46.0	46.0	46.0	46.0	45.9	45.8	45.6	45.0	15	00	48.3	9	00	10
47.2	46.7	45.9	45.9	45.9	45.7	45.7	45.7	45.8	45.4	15	00	47.4	7	21	11
47.2	46.5	46.0	46.1	46.2	46.2	46.0	46.0	45.8	45.2	16	00	47.2	7	25	12
46.4	46.5	46.0	46.0	46.0	46.4	46.0	46.0	45.9	45.4	14	00	48.0	7	50	13
47.5	46.7	46.4	46.0	45.9	46.1	46.1	46.0	45.8	45.6	14	00	48.5	7	34	14
46.8	46.4	46.9	47.2	46.9	46.6	46.4	45.7	44.7	45.3	15	00	48.0	8	14	15
46.8	46.9	46.5	45.7	46.0	45.7	45.0	45.1	45.5	45.5	14	23	47.9	7	04	16
46.4	46.5	46.5	46.3	46.2	46.3	46.1	45.6	45.6	45.4	17	00	46.5	9	39	17
46.4	46.0	46.4	46.3	46.3	46.3	46.1	46.0	45.9	45.4	14	24	46.6	7	43	18
45.6	46.0	46.2	46.2	46.2	46.2	46.1	46.0	45.8	45.3	12	45	46.3	8	11	19
47.8	47.3	46.9	46.5	46.6	46.5	46.5	46.4	46.3	45.9	14	07	48.4	7	28	20
46.8	46.8	46.4	46.3	46.3	46.3	46.3	46.2	46.3	45.7	14	00	47.2	8	00	21
48.3	47.3	46.8	46.6	46.7	46.6	46.6	46.5	46.5	46.3	14	00	49.4	7	44	22
48.3	47.4	46.9	46.8	46.8	46.9	46.8	46.6	46.7	46.0	15	22	48.8	8	00	23
48.2	47.2	47.1	46.9	46.6	46.3	45.9	45.7	45.9	45.7	15	00	48.8	9	22	24
47.1	46.6	46.5	46.4	46.5	46.4	46.4	46.4	46.6	45.8	14	00	47.1	10	00	25
46.2	46.0	46.4	46.6	46.7	46.7	46.5	46.4	46.4	46.3	14	00	46.9	6	52	26
47.5	47.3	47.1	46.9	46.9	46.7	46.7	46.6	46.5	46.0	15	00	47.5	7	32	27
47.4	46.5	46.2	46.3	46.3	46.5	46.5	46.4	46.4	46.5	11	34	48.9	7	18	28
47.7	46.9	46.8	46.8	46.6	46.7	46.5	46.3	46.3	46.4	13	00	49.9	7	45	29
47.3	46.9	46.3	46.6	46.6	46.6	45.9	46.2	45.9	45.9	14	24	48.0	7	27	30
47.3	46.7	46.4	46.3	46.2	46.1	45.9	45.8	45.8	45.7						6.2
47.2	46.7	46.5	46.4	46.4	46.3	46.3	46.1	46.0	45.8						6.1

NOTE.—Values in parentheses were interpolated.

JULY, 1906.

1° WEST PLUS TABULAR MINUTES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	45.7	45.5	45.3	44.9	44.5	43.4	41.9	41.9	43.2	45.5	46.9	46.8	47.0	48.0	47.6
2*	45.9	45.8	45.8	45.6	45.1	43.6	42.5	43.1	43.9	44.9	45.9	46.5	46.5	46.2	46.7
3*	46.3	46.4	46.0	45.6	45.4	44.1	42.6	43.7	45.0	45.8	46.6	46.9	46.6	47.4	47.4
4	46.0	45.9	45.6	45.2	44.7	43.3	41.5	42.7	43.3	44.8	45.6	47.1	48.0	48.2	48.2
5	46.2	46.0	46.1	45.2	44.9	44.2	43.4	43.8	45.0	47.0	47.7	48.2	47.9	48.1	47.9
6	44.9	44.8	44.9	45.0	44.8	42.9	41.9	41.9	43.4	44.0	45.2	46.6	47.9	48.5	48.7
7*	46.5	46.5	46.3	46.0	45.7	44.2	42.1	41.7	43.6	45.8	47.7	48.2	48.3	48.3	48.4
8*	46.1	46.0	46.0	46.0	45.5	44.1	42.1	41.1	42.2	43.8	45.5	47.2	48.5	49.2	49.1
9	46.2	46.2	46.0	45.8	45.5	44.9	43.5	43.0	43.7	45.2	46.1	46.8	47.7	48.8	48.8
10	45.3	45.8	46.0	44.8	44.4	44.1	42.6	41.7	43.8	44.9	46.0	47.5	48.2	48.3	47.3
11	46.6	46.6	46.6	46.0	45.9	45.4	43.3	42.9	43.0	44.3	44.7	47.1	50.3	51.3	51.7
12	46.3	46.7	47.4	46.3	45.3	43.8	43.1	42.5	42.8	44.6	45.4	47.0	47.7	47.7	47.8
13	45.8	45.4	46.7	46.2	45.3	44.0	42.7	42.6	43.2	44.3	46.0	46.9	48.0	48.7	48.8
14*	46.4	46.2	45.9	45.7	45.6	44.6	42.9	43.0	43.6	44.3	45.2	46.2	47.7	48.1	48.4
15	46.1	46.1	46.1	46.0	45.9	45.3	43.7	43.4	43.7	45.4	46.9	47.5	47.7	47.6	47.3
16*	46.7	46.5	46.4	46.3	46.0	45.1	42.9	42.7	44.4	46.8	48.7	49.8	50.0	49.1	47.5
17	46.7	46.6	46.5	46.2	45.9	44.6	43.3	45.2	47.7	49.0	50.2	49.7	49.3	49.2	48.9
18*	46.7	46.7	46.6	46.4	46.0	44.9	42.7	42.8	44.7	46.0	47.4	47.1	48.4	49.7	49.3
19	46.8	46.8	46.4	46.2	45.9	45.2	44.4	44.6	44.9	46.8	48.8	50.0	49.8	48.9	48.0
20*	46.4	46.3	46.2	45.5	45.2	43.4	41.2	39.6	41.0	43.2	47.4	49.6	49.8	48.0	47.0
21	45.5	45.9	45.8	45.8	44.9	44.1	41.9	41.3	44.2	48.1	49.6	49.6	49.9	49.6	49.2
22	46.6	46.5	46.5	46.4	46.2	44.0	41.9	41.7	42.9	44.4	45.0	45.7	46.9	47.6	47.9
23	47.0	46.7	46.4	46.2	45.1	44.5	43.0	43.0	44.5	46.0	47.4	48.5	49.3	49.5	49.0
24	46.9	46.8	46.7	46.4	45.9	44.5	42.7	43.4	44.7	47.0	48.4	48.9	48.9	49.6	49.5
25*	46.9	46.5	46.3	45.6	45.5	44.2	42.8	42.4	43.5	45.1	46.7	47.9	48.2	48.7	48.1
26*	46.4	46.5	46.4	45.9	45.7	44.5	43.2	42.9	43.6	44.5	45.9	47.1	47.9	49.0	49.5
27	46.6	45.7	45.5	45.0	45.5	44.9	45.0	43.3	42.8	44.1	44.6	46.3	47.8	49.6	49.9
28	(47.2)	(46.8)	(46.5)	(45.9)	(45.7)	(44.8)	(43.7)	(42.9)	(43.2)	(44.4)	(45.3)	(46.1)	46.4	47.6	47.4
29	46.5	46.5	46.3	46.1	45.8	45.1	43.3	42.7	43.2	45.2	46.9	47.3	47.2	47.2	47.4
30	(46.9)	(46.8)	(46.6)	(46.2)	(45.8)	(45.4)	(44.8)	(44.8)	(46.0)	47.2	47.6	48.2	47.9	48.7	48.8
31	46.5	46.6	46.1	45.8	46.1	44.8	43.8	46.2	46.6	46.5	46.6	47.1	47.6	47.6	47.8
Mean.....	46.3	46.3	46.2	45.8	45.5	44.4	42.9	42.9	43.9	45.4	46.7	47.6	48.2	48.5	48.4
Mean*.....	46.4	46.3	46.2	45.9	45.6	44.3	42.5	42.3	43.6	45.0	46.7	47.6	48.2	48.4	48.1

AUGUST, 1906.

1° WEST PLUS TABULAR MINUTES.

1	47.3	46.7	47.4	46.9	46.5	44.4	42.7	42.5	43.8	45.3	46.7	48.1	48.3	48.5	48.1
2	46.8	46.8	46.5	46.5	45.8	43.9	41.9	41.8	43.8	45.9	48.3	49.4	49.1	49.2	48.5
3*	46.9	46.7	46.6	46.1	45.8	44.5	42.1	42.1	44.7	47.1	49.3	50.0	49.7	49.2	48.2
4*	46.7	46.6	46.3	46.1	45.5	44.7	43.5	44.5	46.7	47.8	48.3	48.1	47.9	47.6	47.5
5*	46.4	46.2	46.0	45.6	45.6	44.4	42.5	42.2	44.1	45.7	47.5	48.6	49.9	49.8	49.4
6	46.9	47.0	46.8	46.7	46.4	45.6	44.7	45.4	45.9	46.4	46.8	47.0	47.7	48.8	49.2
7	46.7	46.6	46.5	46.2	45.9	44.9	43.6	43.8	44.0	45.3	47.4	48.8	49.0	49.7	49.5
8	45.2	45.3	47.2	47.3	46.7	44.7	41.9	41.6	42.9	44.6	45.5	47.1	47.8	48.7	50.3
9*	46.2	46.7	46.8	46.5	46.2	45.2	43.1	41.8	41.7	42.7	44.9	47.3	49.3	50.5	51.0
10	46.5	46.4	46.6	47.0	46.1	45.1	43.2	42.9	43.3	44.2	45.2	46.4	47.4	48.6	48.9
11	46.8	46.8	46.8	46.7	46.4	45.9	45.0	44.4	45.2	46.3	46.6	47.3	48.1	49.0	48.8
12	46.7	46.8	46.7	46.5	46.3	45.3	43.9	43.8	44.5	45.7	46.4	47.6	47.8	47.9	47.9
13	46.2	46.5	46.1	46.3	45.7	44.6	43.7	43.8	43.5	44.0	44.9	45.9	46.2	47.4	48.3
14	47.6	46.5	46.3	45.9	45.7	45.0	43.3	42.5	43.5	45.2	46.6	47.0	47.5	48.5	48.6
15	48.1	48.1	47.8	47.7	47.5	47.3	47.5	45.5	46.2	47.1	47.5	49.1	49.9	49.9	49.5
16	48.4	48.5	48.4	48.2	48.0	46.6	46.0	46.4	47.5	47.9	48.3	48.8	49.3	49.6	49.3
17	48.2	48.3	48.0	47.6	47.0	45.8	44.3	44.2	44.6	44.8	45.0	47.1	48.0	48.5	48.4
18*	47.3	47.3	47.0	47.0	46.5	45.7	44.5	44.5	45.3	46.4	46.7	46.9	47.5	48.2	48.6
19*	47.4	47.4	47.2	47.0	46.8	45.3	43.1	42.5	42.5	44.3	45.6	46.4	47.7	48.9	49.9
20	47.6	47.4	47.3	46.7	46.2	45.3	43.2	42.5	43.2	44.5	46.0	47.3	48.7	48.6	48.3
21*	47.2	46.6	46.9	46.2	46.2	45.5	43.4	44.4	45.9	47.3	48.8	49.8	50.7	51.1	49.9
22*	47.4	47.4	47.6	46.9	46.5	45.3	43.3	43.7	45.8	47.5	48.7	49.7	50.1	49.8	49.5
23*	47.2	47.3	47.6	47.2	46.3	44.7	42.5	43.2	46.1	48.3	49.0	48.7	49.1	50.2	50.5
24	47.2	47.2	47.0	46.8	46.3	44.8	41.7	41.6	43.5	45.1	46.7	48.5	50.2	51.2	50.0
25	46.7	46.4	46.1	45.7	45.8	45.2	43.2	43.0	43.5	44.4	45.7	47.2	48.4	49.2	49.3
26	47.4	47.8	47.2	46.7	46.2	45.7	44.8	44.2	44.7	45.7	47.4	48.1	48.8	49.1	48.8
27	47.0	46.6	46.8	46.6	46.2	45.7	45.2	46.1	46.8	47.7	49.2	49.8	50.4	50.6	50.2
28*	47.3	47.5	47.0	46.9	46.5	45.6	43.8	44.3	46.0	47.9	48.7	49.1	49.4	48.9	48.2
29	47.5	47.4	47.1	47.0	46.6	45.2	43.4	44.6	46.6	48.9	50.2	50.8	50.8	50.0	50.0
30	47.5	47.4	47.0	46.6	46.3	44.9	43.2	43.4	44.7	46.3	47.9	48.6	49.1	49.2	48.8
31	47.6	46.7	46.9	47.3	46.2	45.6	44.0	44.6	45.1	46.0	47.1	47.9	49.1	49.4	49.3
Mean.....	47.1	47.0	47.0	46.7	46.3	45.2	43.6	43.6	44.7	46.0	47.2	48.1	48.8	49.2	49.1
Mean*.....	47.0	47.0	46.9	46.6	46.2	45.1	43.2	43.3	44.9	46.5	47.8	48.5	49.1	49.4	49.3

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF DECLINATION.

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JULY, 1906.

1° WEST PLUS TABULAR MINUTES.

16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean	Maximum		Minimum		Range	Day
										h	m	h	m		
47.2	47.0	47.0	46.9	46.8	46.6	45.2	45.4	45.7	45.7	14	14	48.1	7 33	41.5	1
46.9	46.3	45.9	46.4	46.5	46.1	46.4	46.1	46.1	45.6	16	00	46.9	7 07	42.4	2
47.2	46.3	46.0	46.4	46.5	46.4	46.4	46.2	46.2	46.0	14	00	47.4	7 00	42.6	3
47.1	46.2	45.9	46.6	46.5	46.5	46.4	46.4	46.2	45.7	14	27	48.5	7 09	41.2	4
48.4	47.4	46.6	46.6	46.5	46.6	45.8	45.3	45.4	46.3	16	00	48.4	7 00	43.4	5
47.8	46.6	46.3	46.2	46.2	46.4	45.9	45.9	46.4	45.5	15	00	48.7	7 47	41.7	6
48.4	47.6	47.0	47.0	46.5	46.3	46.3	46.3	46.2	46.3	15	15	48.5	7 42	41.4	7
48.8	47.5	46.8	46.5	46.3	46.1	46.2	46.2	46.2	46.0	14	23	49.3	8 00	41.1	8
47.7	47.0	46.8	46.6	46.6	46.5	46.5	46.4	45.6	46.2	14	12	49.0	8 17	42.9	9
46.7	46.1	46.1	46.5	46.6	46.6	46.6	46.6	46.6	45.8	13	34	48.5	7 57	41.5	10
51.0	48.8	47.7	47.7	47.5	46.9	46.9	46.3	45.9	46.8	15	20	52.2	9 31	42.7	11
47.3	45.7	46.3	47.0	46.9	46.9	46.7	46.3	45.8	46.0	14	33	48.0	7 54	42.1	12
48.4	47.6	47.4	47.0	46.7	46.6	46.5	46.3	46.6	46.2	14	33	49.0	7 55	42.1	13
48.1	48.0	47.7	47.5	47.1	46.8	46.8	46.6	46.4	46.2	15	00	48.5	7 57	42.7	14
46.9	46.4	46.8	47.1	47.0	47.1	46.8	46.8	46.7	46.3	13	40	47.7	8 13	43.2	15
46.8	46.7	47.4	47.6	47.4	47.3	47.1	47.0	46.9	46.8	13	00	50.0	7 47	42.6	16
47.7	47.2	47.2	47.4	47.4	47.2	47.0	46.8	46.8	47.2	11	00	50.2	6 44	43.2	17
48.4	47.5	47.5	47.3	47.5	47.6	47.3	47.2	47.3	46.8	14	00	49.7	7 21	42.3	18
47.2	45.9	45.8	46.2	46.8	46.9	46.8	46.7	46.6	46.8	12	30	50.2	7 02	44.3	19
46.2	46.4	46.9	47.2	47.2	47.0	46.9	46.9	46.3	45.9	12	46	49.9	8 13	39.4	20
48.0	47.0	46.5	46.6	46.4	46.7	46.5	46.6	46.7	46.5	13	00	49.9	7 31	40.7	21
47.9	47.2	47.0	47.4	47.4	47.4	47.0	46.9	47.0	46.1	15	16	48.0	7 19	41.5	22
48.5	47.5	46.7	46.8	47.4	47.0	46.8	46.7	46.6	46.7	14	00	49.5	7 25	41.9	23
48.6	47.6	47.2	47.5	47.5	47.2	46.9	46.1	46.7	46.9	14	00	49.6	7 00	42.7	24
48.0	47.3	47.0	47.3	47.1	47.1	47.1	46.8	46.7	46.4	14	00	48.7	8 12	42.1	25
49.3	48.0	47.1	47.1	47.0	47.0	46.8	46.7	46.6	46.4	15	00	49.5	7 27	41.7	26
49.9	(49.7)	(49.3)	(49.0)	(48.7)	(48.4)	(48.1)	(47.7)	(47.4)	46.9	15	45	50.0	9 00	42.8	27
46.9	49.0	48.6	48.1	47.8	47.6	47.0	46.8	46.3	46.3	17	00	49.0	(8 00)	(42.9)	28
47.7	47.6	48.0	(47.8)	(47.6)	(47.5)	(47.4)	(47.3)	(47.2)	46.4	18	00	48.0	9 06	42.4	29
49.0	48.3	47.7	47.8	47.8	46.7	46.7	46.8	46.4	47.0	15	44	49.2	(7 30)	(44.8)	30
46.9	46.1	46.6	47.1	46.7	47.0	46.9	46.6	46.6	46.5	14	40	48.0	6 50	43.5	31
47.9	47.2	47.0	47.1	47.0	46.9	46.7	46.5	46.5	46.3					6.7	
47.8	47.2	46.9	47.0	46.9	46.8	46.7	46.6	46.5	46.2					7.0	

AUGUST, 1906.

1° WEST PLUS TABULAR MINUTES.

47.9	47.2	46.7	47.3	47.3	47.0	47.0	47.0	46.9	46.6	13	53	48.6	8 00	42.5	6.1	1
47.3	46.3	46.3	46.9	47.3	47.4	47.4	47.1	47.1	46.6	12	00	49.4	7 33	41.2	8.2	2
47.3	46.6	46.7	47.0	47.1	47.0	46.9	46.7	46.8	46.7	11	34	50.2	7 26	41.6	8.6	3
46.6	46.3	46.7	47.2	47.3	47.1	47.0	46.9	46.8	46.7	11	00	48.3	7 14	43.3	5.0	4
48.0	46.8	46.3	46.7	46.7	46.8	46.8	46.8	46.8	46.5	13	14	50.1	7 29	41.7	8.4	5
48.8	48.3	48.0	47.3	47.3	47.2	46.6	46.8	46.8	47.0	15	05	49.3	7 00	44.7	4.6	6
50.0	49.1	47.5	47.2	47.2	46.5	43.8	44.6	45.2	46.6	15	47	50.5	7 37	43.2	7.3	7
50.7	49.6	48.1	46.4	46.2	46.6	46.5	46.5	46.5	46.4	15	30	50.8	7 18	40.7	10.1	8
49.8	48.0	47.3	46.2	46.3	46.5	46.3	46.5	46.8	46.4	15	05	51.2	9 12	41.6	9.6	9
48.5	48.1	47.5	47.3	47.2	47.0	46.7	46.7	46.6	46.4	15	00	48.9	7 13	42.7	6.2	10
48.4	47.1	46.8	47.3	47.3	47.0	46.8	46.8	46.7	46.8	14	00	49.0	7 51	44.2	4.8	11
48.0	48.1	47.4	45.5	46.8	46.5	45.9	45.6	46.3	46.4	13	50	48.3	7 28	42.9	5.4	12
47.9	47.4	47.4	47.3	47.3	47.0	47.2	47.0	46.7	46.2	1	29	49.5	9 00	43.5	6.0	13
48.4	47.5	47.9	47.9	48.1	47.7	47.8	47.6	47.7	46.7	14	24	48.9	8 09	42.4	6.5	14
49.1	48.2	48.2	48.5	47.9	48.0	48.5	48.5	48.4	48.1	13	28	50.3	8 00	45.5	4.8	15
49.1	48.4	48.3	48.4	48.4	48.4	48.4	48.3	48.1	48.2	14	00	49.6	7 00	46.0	3.6	16
48.2	47.9	47.6	47.5	47.5	47.3	47.4	47.0	47.4	47.0	14	00	48.5	8 00	44.2	4.3	17
48.4	47.5	46.9	47.4	47.6	47.7	47.4	47.5	47.5	47.0	15	27	48.7	7 38	44.4	4.3	18
49.2	47.9	47.4	47.4	47.6	47.7	47.6	47.5	47.6	46.7	14	53	50.0	8 36	42.1	7.9	19
48.1	47.9	47.8	47.6	47.6	47.6	47.5	46.9	46.8	46.7	13	00	48.7	8 00	42.5	6.2	20
48.2	47.1	46.8	47.0	47.0	47.1	47.2	47.2	47.3	47.3	13	48	51.1	7 05	43.2	7.9	21
48.6	48.0	47.7	47.5	47.3	47.5	47.4	47.3	47.1	47.4	13	00	50.1	7 21	43.1	7.0	22
49.9	48.7	47.8	47.5	47.2	46.8	47.0	47.2	47.2	47.4	14	43	50.6	7 27	42.4	8.2	23
48.2	47.2	47.4	47.8	47.8	47.7	47.2	47.1	47.0	46.9	14	06	51.3	7 25	41.0	10.3	24
48.9	48.5	48.4	48.4	48.2	48.0	47.8	47.7	47.6	46.8	14	36	49.5	8 00	43.0	6.5	25
48.3	47.6	47.6	47.8	47.5	46.6	47.2	47.1	47.1	47.1	14	00	49.1	7 39	44.0	5.1	26
49.1	48.2	48.2	46.8	47.2	47.1	47.1	46.6	47.1	47.6	13	31	50.9	7 24	44.3	6.6	27
47.7	47.7	47.9	48.1	48.1	48.2	47.6	47.7	47.6	47.4	12	37	49.6	8 06	43.7	5.9	28
49.3	49.0	48.7	48.4	48.2	48.4	48.2	47.8	47.7	48.0	12	37	51.0	7 00	43.4	7.6	29
48.6	48.1	48.3	48.1	48.1	48.1	47.8	47.2	47.2	47.2	13	36	49.2	7 10	42.8	6.4	30
48.7	48.1	48.1	47.9	48.0	48.0	48.0	47.7	47.7	47.3	14	00	49.3	6 52	43.3	6.0	31
48.6	47.8	47.5	47.4	47.4	47.3	47.2	47.1	47.1	47.0					6.6		
48.4	47.5	47.2	47.2	47.2	47.2	47.1	47.1	47.2	46.9					7.3		

NOTE.—Values in parentheses were interpolated.

SEPTEMBER, 1906.

1° WEST PLUS TABULAR MINUTES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	47.3	47.1	46.7	46.4	46.0	44.6	42.7	43.7	46.1	49.3	52.3	53.0	52.6	51.3	50.6
2	47.8	47.3	47.8	46.9	46.1	45.1	42.1	42.1	44.0	46.3	48.9	51.0	51.6	51.2	50.7
3	47.6	48.1	47.5	47.0	46.4	45.1	42.9	43.3	45.5	48.0	50.0	52.0	53.6	52.8	51.4
4	48.1	47.7	47.5	47.2	45.8	44.9	42.3	41.2	42.8	44.9	48.1	50.6	51.9	52.2	51.3
5	49.2	47.5	48.2	47.5	46.5	45.6	42.8	41.3	42.2	44.5	46.7	49.0	50.0	50.7	50.1
6	47.9	47.7	47.3	47.2	46.9	46.0	43.3	42.2	43.3	44.9	46.2	48.0	49.3	49.6	48.8
7*	47.8	48.3	47.8	47.3	47.0	46.0	44.3	43.5	44.4	46.2	47.6	49.4	50.5	50.7	50.0
8	47.9	47.8	47.4	47.3	47.1	46.6	45.7	46.6	47.3	47.8	48.5	49.3	49.9	49.6	48.8
9*	47.8	47.8	47.5	47.3	46.9	46.1	44.7	45.2	46.3	47.3	48.8	49.9	50.4	49.8	49.3
10*	47.7	47.6	47.6	47.5	47.3	46.7	45.8	44.3	45.1	46.5	47.7	49.2	49.8	50.2	49.6
11*	47.8	47.7	47.6	47.6	47.3	46.1	44.1	44.4	45.1	45.8	47.2	48.5	50.5	50.4	50.3
12*	47.5	47.2	46.8	46.5	46.4	45.0	44.3	43.9	45.0	46.0	47.3	48.4	48.7	49.1	49.4
13*	47.7	47.6	47.5	47.2	46.6	45.4	43.4	43.8	45.7	47.6	48.5	49.7	50.3	49.9	49.7
14	48.4	47.6	47.0	46.8	46.4	45.2	44.7	44.2	45.4	47.4	48.8	49.8	49.9	49.5	48.7
15	46.8	48.9	47.1	46.5	46.2	44.8	42.7	43.2	45.3	47.6	49.3	49.5	49.2	48.8	47.6
16	47.2	47.1	46.6	46.1	46.0	45.7	44.0	44.8	46.9	48.5	49.7	50.4	49.1	48.1	47.5
17	47.6	47.5	46.6	46.5	46.1	44.9	43.6	43.9	45.2	47.2	49.3	50.8	50.4	49.7	49.2
18*	47.9	47.9	47.6	47.2	46.8	45.7	43.9	44.5	46.4	48.8	50.6	51.6	51.5	51.0	50.0
19*	48.1	48.0	47.9	47.7	47.3	45.8	43.7	43.0	44.3	45.6	48.8	50.0	50.1	49.8	48.8
20*	48.5	48.2	48.0	47.3	46.9	45.9	44.2	44.3	45.3	46.9	49.0	49.9	49.6	49.1	48.3
21	47.6	47.5	47.3	47.5	47.1	46.1	45.0	44.5	44.6	46.2	48.2	49.3	49.5	49.3	49.1
22	47.9	47.3	47.3	46.8	46.8	46.4	45.1	44.6	44.2	46.1	47.0	49.1	50.1	50.6	49.8
23	47.0	47.3	47.3	48.2	47.3	46.4	45.2	44.6	44.5	45.8	47.2	49.0	49.8	50.1	49.9
24	46.7	46.4	47.1	47.1	47.1	46.6	45.9	46.0	46.3	47.1	47.7	48.0	47.8	48.3	47.8
25	47.5	47.3	47.6	48.8	47.5	47.0	46.9	47.0	47.5	48.0	48.3	48.0	48.2	48.2	48.0
26*	47.7	47.6	47.4	47.3	46.7	46.8	45.7	45.8	47.0	47.9	48.1	48.4	48.1	48.6	49.3
27*	47.7	47.7	47.6	47.5	47.1	46.5	45.5	44.8	45.0	46.3	47.7	49.2	49.9	50.0	49.1
28	48.3	48.2	48.1	47.8	47.6	47.0	46.5	46.5	46.9	47.9	48.8	49.5	49.5	48.8	48.1
29	48.0	47.8	47.8	47.6	47.2	46.8	46.6	46.9	48.0	48.5	49.5	50.7	51.1	50.4	48.7
30	47.8	47.5	47.2	47.3	47.3	47.0	46.6	†....	....	....	....	....	....	....	....
Mean.....	47.8	47.6	47.4	47.2	46.8	45.9	44.4	44.3	45.4	46.9	48.5	49.7	50.1	49.9	49.3
Mean*.....	47.8	47.8	47.6	47.3	46.9	46.0	44.4	44.3	45.5	46.9	48.4	49.5	50.0	49.9	49.5

OCTOBER, 1906.

1° WEST PLUS TABULAR MINUTES.

1	†....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	....	....	....	....	....	....	....	....	....	....	....	....	....	49.2	49.1
8	....	....	....	....	....	....	....	....	....	....	....	....	48.8	49.2	49.7
9	48.2	48.3	48.3	48.3	48.0	47.7	46.9	46.2	47.0	47.7	48.3	48.7	47.8	49.1	49.5
10*	48.3	48.6	48.4	48.5	48.2	48.4	47.1	45.7	45.0	45.1	46.0	46.9	....	....	....
11	47.8	47.9	48.0	47.7	47.8	47.5	47.7	47.7	47.1	47.1	47.2	47.1	47.4	48.1	48.2
12	48.2	48.0	47.5	47.2	47.3	46.6	47.2	46.3	46.3	47.6	48.0	48.3	48.5	48.7	48.2
13*	48.4	49.0	48.4	48.2	48.0	48.0	47.2	46.4	45.8	46.0	46.8	47.7	48.5	49.2	49.3
14*	48.2	48.2	48.2	48.1	48.3	47.4	46.3	46.3	45.3	46.5	46.8	48.8	49.0	48.8	48.8
15	48.2	48.7	47.9	48.2	47.6	47.3	46.3	45.5	46.2	48.3	49.8	50.3	49.8	49.5	49.2
16*	48.5	48.3	48.3	47.9	47.6	47.2	45.9	45.3	46.5	48.9	50.4	50.4	49.9	49.6	49.2
17*	48.3	48.6	48.2	48.1	47.7	47.6	46.5	45.7	46.5	47.8	49.1	49.1	48.9	48.8	48.6
18*	48.6	48.7	48.7	48.3	48.2	47.7	46.8	46.3	46.8	48.2	49.5	50.5	50.6	50.5	50.0
19*	48.6	48.7	48.8	48.7	47.8	47.9	47.0	45.9	45.9	47.4	49.1	50.1	50.1	49.7	49.6
20	49.1	49.0	48.6	48.4	47.9	47.5	46.4	45.0	45.6	47.6	49.3	50.0	50.3	50.4	50.0
21	48.6	48.8	48.6	47.9	48.5	47.6	46.4	44.5	45.6	46.8	48.2	49.5	49.3	49.3	49.8
22	48.3	48.5	48.9	48.9	48.6	48.4	47.3	46.6	46.4	47.0	48.1	48.5	48.4	49.6	51.1
23	49.1	48.8	48.4	48.9	48.5	48.8	47.9	46.9	46.1	(46.6)	(47.6)	(48.2)	(48.3)	(49.4)	(50.4)
24*	48.6	48.8	48.7	48.7	48.6	48.6	47.2	46.7	46.2	46.5	47.6	48.2	48.6	49.6	50.2
25	48.6	48.1	48.5	48.6	48.6	48.4	47.8	47.5	47.8	48.2	48.6	48.6	48.0	48.1	48.9
26	48.7	48.7	48.7	48.5	48.3	47.9	47.3	47.7	48.7	50.3	51.6	51.5	50.8	50.3	49.6
27*	48.6	48.6	48.6	47.7	48.3	48.2	47.2	47.2	48.5	48.7	49.7	49.8	49.4	48.7	48.4
28*	48.2	48.4	48.0	48.1	(48.0)	(47.9)	(47.1)	46.9	47.4	48.3	48.6	48.5	48.3	48.3	48.3
29	48.4	48.3	48.6	48.7	48.0	48.0	47.6	47.3	47.8	48.5	49.1	48.9	48.4	(48.8)	(49.0)
30	49.5	48.6	48.3	48.5	48.3	48.4	47.9	47.7	47.7	47.3	47.3	46.8	47.1	47.7	48.1
31	48.8	48.8	48.5	48.3	48.2	47.9	47.0	46.1	45.7	46.5	47.7	48.6	48.6	48.6	49.1
Mean.....	48.5	48.5	48.4	48.3	48.1	47.9	47.0	46.4	46.6	47.5	48.5	48.9	48.9	49.1	49.3
Mean*.....	48.4	48.6	48.4	48.2	48.1	47.9	46.8	46.2	46.4	47.3	48.4	49.0	49.1	49.2	49.2

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.
†Not in good adjustment from September 30 to October 8.

SEPTEMBER, 1906.

1° WEST PLUS TABULAR MINUTES.

16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean	Maximum			Minimum			Range	Day
/	/	/	/	/	/	/	/	/	/	h	m	/	h	m	/	/	1
48.2	(48.5)	48.8	48.2	47.0	47.5	48.0	47.9	47.9	48.0	12	25	53.4	6	56	42.6	10.8	1
49.4	48.5	48.1	47.8	47.9	47.8	47.6	47.6	47.7	47.6	13	23	51.9	7	18	41.3	10.6	2
50.5	49.5	48.4	46.5	47.9	47.2	47.8	47.3	47.7	48.1	13	10	53.7	7	08	42.7	11.0	3
49.3	48.3	47.5	46.7	47.0	47.0	47.2	48.1	47.6	47.3	13	47	52.3	7	42	40.2	12.1	4
49.6	48.2	47.8	48.0	47.7	47.7	47.8	47.9	48.4	47.3	14	00	50.7	7	46	41.2	9.5	5
48.3	47.9	47.9	47.8	47.9	47.8	47.8	47.9	47.8	47.1	13	48	49.7	8	00	42.2	7.5	6
49.1	48.2	48.0	47.9	48.0	47.9	47.8	47.8	47.8	47.6	14	00	50.7	8	00	43.5	7.2	7
48.3	47.7	47.8	48.0	48.0	47.9	47.9	47.9	47.8	47.9	13	00	49.9	6	56	45.9	4.0	8
48.4	48.4	48.4	48.4	48.4	48.2	48.1	48.0	47.7	47.9	12	52	50.5	7	00	44.7	5.8	9
48.8	47.9	47.9	47.8	48.2	47.8	47.8	47.9	47.8	47.7	14	39	50.7	7	24	43.6	7.1	10
49.4	48.5	48.5	48.1	48.0	48.2	48.2	47.8	47.5	47.7	14	39	50.8	7	24	43.8	7.0	11
48.0	48.3	48.3	48.4	48.2	47.9	47.9	48.0	48.0	47.3	13	50	49.2	7	15	43.3	5.9	12
49.2	48.2	48.2	48.2	48.2	48.0	47.9	47.9	47.9	47.7	12	40	50.1	7	00	43.0	7.1	13
48.2	47.6	47.9	47.9	48.2	48.3	48.1	47.8	47.3	47.5	12	09	49.9	7	18	43.6	6.3	14
47.4	47.2	47.5	47.7	47.8	46.5	47.2	47.4	47.2	47.1	11	21	50.0	7	00	42.7	7.3	15
47.6	47.7	48.3	47.8	47.0	47.2	47.4	47.8	47.8	47.3	12	00	50.4	6	48	43.9	6.5	16
48.7	49.1	48.8	48.6	48.4	48.1	47.9	48.0	48.1	47.7	12	23	50.8	7	00	43.6	7.2	17
48.9	48.2	48.3	48.1	47.8	47.8	47.9	48.0	48.1	48.1	12	00	51.6	7	17	43.8	7.8	18
48.2	48.0	47.9	47.9	47.9	47.9	47.9	48.0	48.1	47.5	13	00	50.1	8	11	42.9	7.2	19
48.1	48.5	48.3	47.9	47.9	47.8	47.7	47.7	47.6	47.6	12	13	50.1	7	00	44.2	5.9	20
48.3	48.0	48.2	48.1	47.8	47.8	47.7	47.8	47.7	47.5	13	02	49.6	8	37	44.3	5.3	21
50.1	50.5	47.4	45.1	47.4	47.5	47.1	46.7	46.1	47.4	13	42	51.3	19	39	43.4	7.9	22
49.3	48.9	48.8	48.3	48.2	47.5	47.4	47.6	48.0	47.6	12	53	50.0	9	15	44.5	5.5	23
48.1	48.4	47.9	47.5	47.6	47.6	46.4	47.5	47.6	47.3	14	42	48.6	7	19	45.0	3.6	24
47.7	47.9	47.9	47.7	48.0	47.7	45.9	47.2	47.9	47.7	3	50	49.1	7	33	46.4	2.7	25
48.9	48.9	47.1	47.5	47.9	48.0	47.9	48.0	48.0	47.7	15	00	49.3	7	32	45.0	4.3	26
48.8	48.7	48.7	48.5	48.5	48.5	48.5	48.4	48.3	47.9	13	53	50.1	8	15	44.5	5.6	27
47.3	47.8	48.6	48.3	48.0	47.7	48.1	48.3	48.1	48.0	12	15	49.5	7	42	46.1	3.4	28
47.9	47.9	48.0	47.8	48.4	48.6	48.3	48.1	48.1	48.3	13	00	51.1	7	29	46.5	4.6	29
....	....	....	....	....	....	....	....	....	....	..	..	....	..	..	....	...	30
48.6	48.3	48.1	47.8	47.9	47.8	47.7	47.8	47.8	47.6							6.8	
48.7	48.3	48.1	48.0	48.0	48.0	47.9	47.9	47.8	47.7							6.5	

OCTOBER, 1906.

1° WEST PLUS TABULAR MINUTES.

....	....	....	....	....	....	....	....	....	....	.. ..	....	....	....	1
....	....	....	....	....	....	....	....	....	....	.. ..	....	....	....	2
....	....	....	....	....	....	....	....	....	....	.. ..	....	....	....	3
....	....	....	....	....	....	....	....	....	....	.. ..	....	....	....	4
....	....	....	....	....	....	....	....	....	....	.. ..	....	....	....	5
....	....	....	....	....	....	....	....	....	....	.. ..	....	....	....	6
....	....	....	....	....	....	....	....	....	....	.. ..	....	....	....	7
49.0	48.8	48.7	48.7	48.4	48.2	48.2	48.2	48.2	48.3	15 00	49.7	7 33	46.1	8
49.6	49.4	48.8	48.7	48.7	48.4	48.3	48.3	48.3	48.3	16 00	49.6	9 06	45.0	9
49.6	49.3	48.8	48.4	48.1	48.0	47.8	47.9	47.9	47.8				4.6	10
48.5	49.0	48.8	48.7	48.1	48.2	48.2	48.2	48.1	47.9	17 06	49.1	9 51	46.8	11
48.1	48.7	48.7	48.3	48.3	48.3	47.9	48.3	48.4	47.9	13 19	48.8	7 54	46.1	12
49.4	49.3	48.7	48.2	48.2	47.2	47.8	47.9	48.2	48.0	16 00	49.4	9 14	45.4	13
48.8	49.2	49.0	48.5	48.5	48.3	48.3	48.4	48.1	48.0	12 44	49.0	8 52	45.2	14
49.1	50.3	48.8	48.6	48.5	48.5	48.5	48.6	48.5	48.4	13 00	49.5	8 29	45.5	15
50.0	49.3	48.9	48.9	48.5	48.4	48.3	48.7	48.6	48.5	11 21	50.4	8 00	45.3	16
48.5	48.6	49.0	48.7	48.5	48.5	48.5	48.6	48.6	48.2	11 28	49.3	8 00	45.7	17
49.6	49.2	48.9	48.5	48.4	48.6	48.0	48.6	48.7	48.7	13 00	50.6	8 00	46.3	18
49.1	49.3	48.5	48.5	48.5	48.5	48.5	48.7	48.8	48.5	12 21	50.3	8 49	45.5	19
49.5	49.1	48.6	48.4	48.0	48.0	48.1	48.4	48.4	48.4	14 00	50.4	8 30	44.6	20
49.6	49.6	49.2	48.7	48.4	48.6	47.2	48.6	48.3	48.2	14 43	50.2	8 00	44.5	21
51.0	50.7	49.3	48.9	48.2	48.3	47.7	48.4	48.4	48.6	14 54	51.1	8 30	46.1	22
(50.2)	(49.8)	48.9	48.7	48.6	48.3	48.4	48.5	48.6	48.5	(15 00)	(50.4)	9 24	45.8	23
49.7	49.3	48.9	48.7	48.6	48.3	48.4	48.4	48.3	48.4	15 00	50.2	9 06	46.0	24
49.3	49.6	49.4	49.3	48.6	48.6	48.6	48.7	48.7	48.5	17 00	49.6	8 00	47.5	25
49.6	50.2	49.8	49.5	48.8	48.7	48.3	48.7	48.7	49.2	12 18	51.8	7 10	47.3	26
48.9	48.7	48.4	47.7	47.4	47.7	47.9	48.4	48.4	48.4	11 09	50.1	7 17	46.5	27
48.4	48.7	48.8	48.5	48.3	48.2	48.0	47.9	48.1	48.1	11 00	48.6	8 18	46.7	28
(49.7)	48.9	49.0	48.8	48.4	48.4	48.4	48.4	48.6	48.5	17 00	49.7	8 00	47.3	29
49.3	48.9	48.7	48.4	48.3	48.3	48.5	48.7	48.7	48.2	1 10	49.6	12 00	46.8	30
49.5	(49.1)	48.8	48.3	48.3	47.7	48.2	48.2	48.3	48.1	16 00	49.5	8 23	45.6	31
49.3	49.3	48.9	48.6	48.4	48.3	48.2	48.4	48.4	48.3				3.8	
49.2	49.1	48.8	48.5	48.3	48.2	48.2	48.4	48.4	48.3				4.0	

NOTE.—Values in parentheses were interpolated.

NOVEMBER, 1906.

1° WEST PLUS TABULAR MINUTES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	48.3	48.4	48.5	48.7	48.1	47.8	47.3	46.7	46.8	46.9	48.1	49.5	49.5	49.2	48.9
2*	48.5	48.5	48.4	48.1	47.9	47.9	47.8	46.9	45.9	45.7	45.9	48.0	49.4	50.1	50.0
3	48.8	48.8	48.8	48.4	48.5	48.3	47.3	46.0	44.9	45.1	46.7	48.9	50.8	50.9	50.2
4	48.7	48.7	48.9	48.8	48.7	48.5	47.8	46.3	45.5	45.3	45.9	47.2	48.9	49.5	49.9
5	48.1	48.5	48.8	49.1	49.1	49.1	48.4	47.3	46.5	46.5	47.1	48.1	48.5	48.9	49.0
6	49.1	49.1	49.2	49.1	49.0	49.0	49.1	48.2	47.5	46.7	47.1	48.1	48.8	49.1	49.4
7	48.3	48.2	48.2	48.1	48.6	48.1	48.3	47.0	46.5	46.2	47.1	48.4	49.6	49.6	49.2
8	48.0	48.1	49.0	49.1	48.3	48.7	47.9	47.0	45.7	45.0	45.4	47.0	48.1	49.1	49.1
9	48.6	48.8	48.6	48.6	48.6	48.6	48.3	47.0	46.4	45.6	46.0	47.0	48.1	49.2	49.7
10	48.7	48.8	49.0	49.0	48.9	49.0	48.4	47.1	46.1	46.2	47.2	48.2	49.2	50.2	49.8
11*	48.2	48.4	48.5	48.6	48.6	48.6	48.6	48.0	47.5	48.2	49.1	49.6	49.6	49.3	49.0
12*	48.5	48.6	48.7	48.8	48.7	48.7	48.8	47.7	47.7	47.9	48.9	49.4	49.5	49.1	48.5
13	(48.9)	(49.1)	(49.3)	(49.2)	(49.3)	(49.4)	(49.5)	48.7	48.6	48.8	49.0	49.1	49.2	49.2	49.3
14*	49.2	49.2	49.2	48.7	48.7	48.6	48.3	47.6	47.0	47.2	48.5	49.7	49.6	49.4	49.1
15*	49.4	49.4	49.1	49.1	49.0	48.6	48.6	47.8	46.6	46.6	47.6	49.1	49.6	50.0	49.6
16	49.5	49.5	49.3	49.0	48.5	49.0	48.3	46.9	46.5	46.2	47.2	48.3	48.6	48.8	48.8
17	49.4	49.2	49.3	48.8	48.7	48.4	48.0	46.6	46.2	46.4	47.8	48.4	48.4	48.4	48.2
18	48.6	49.1	49.2	48.7	48.7	48.4	49.2	48.4	48.2	48.3	48.7	49.1	49.2	49.4	49.4
19	48.6	49.0	49.3	49.3	48.8	48.8	49.0	48.5	47.5	47.4	47.9	48.8	49.8	50.6	51.0
20	49.0	49.0	49.0	49.0	48.8	48.8	49.3	48.3	47.1	46.6	46.5	47.3	49.4	50.7	51.0
21	49.0	49.3	49.3	49.3	49.2	49.2	48.5	47.3	46.5	46.3	46.6	48.3	50.1	51.4	52.2
22	50.7	48.9	49.5	50.4	49.4	50.3	48.8	47.4	46.6	46.6	46.7	47.8	49.2	50.5	50.8
23	48.8	49.1	49.0	48.7	48.8	48.8	48.8	47.6	47.8	47.8	47.5	49.5	49.7	50.1	50.2
24	49.0	49.2	49.3	49.2	49.1	49.1	49.1	48.0	47.2	46.4	47.1	48.2	49.4	50.3	50.4
25*	48.7	49.2	49.3	49.2	49.2	49.2	49.2	48.4	47.7	48.5	48.8	50.3	50.8	51.2	50.9
26*	49.2	49.2	49.0	48.8	48.8	49.2	49.2	48.2	46.4	46.2	47.2	49.4	51.0	51.4	51.0
27*	48.8	49.1	49.1	48.8	48.7	48.7	48.2	47.2	46.2	46.1	47.2	48.9	50.3	51.2	51.2
28*	49.6	49.8	49.6	49.3	49.1	48.8	48.7	47.2	46.1	46.1	47.4	48.7	49.6	50.2	50.7
29*	49.2	49.0	49.1	49.0	49.1	49.2	49.2	48.1	47.0	46.2	47.2	48.4	49.7	50.8	51.1
30	49.2	49.1	49.1	49.0	48.7	48.6	48.2	46.8	45.7	45.8	47.4	48.3	49.2	49.3	50.0
Mean.....	48.9	48.9	49.0	48.9	48.8	48.8	48.5	47.5	46.7	46.6	47.4	48.6	49.4	49.9	49.9
Mean*.....	48.9	49.0	49.0	48.8	48.8	48.8	48.7	47.7	46.8	46.9	47.8	49.2	49.9	50.3	50.1

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1° WEST PLUS TABULAR MINUTES.

1	49.7	49.8	49.9	50.2	49.8	49.7	49.5	48.4	47.4	48.0	48.7	50.1	50.9	51.5	52.2
2	50.2	50.2	50.3	50.4	48.9	48.9	48.7	49.3	48.3	48.7	48.5	49.5	50.5	51.3	51.3
3*	49.9	49.9	50.2	49.8	49.8	49.4	49.4	48.4	47.8	47.4	48.4	50.0	51.4	52.4	52.3
4*	49.8	49.8	49.8	49.5	49.3	49.1	49.3	48.3	47.4	47.4	47.6	48.4	49.8	(51.2)	(51.4)
5	49.9	50.0	50.0	49.8	49.5	49.3	49.3	48.2	47.3	46.4	46.3	47.4	49.5	51.2	51.4
6	49.6	49.7	49.8	49.7	49.4	49.2	48.9	47.4	45.7	45.7	47.7	50.7	51.4	51.7	52.0
7*	49.7	50.1	50.1	50.0	49.6	49.5	49.2	48.2	46.9	46.8	47.4	49.8	51.1	49.8	51.4
8	49.6	50.7	53.4	52.8	50.3	50.9	51.2	48.1	47.3	46.8	47.2	49.1	50.0	52.2	52.2
9	47.6	48.4	48.7	48.5	49.8	49.9	49.7	48.3	47.9	47.3	47.7	48.2	50.3	50.4	50.6
10	48.7	48.9	49.2	49.2	49.2	48.9	49.4	48.3	47.2	47.4	48.2	49.8	50.8	51.2	51.4
11*	50.2	50.6	50.4	50.4	50.2	49.9	49.8	48.2	47.1	46.6	47.4	49.2	50.8	51.7	52.2
12*	49.8	49.8	49.7	49.8	50.0	49.8	50.1	48.8	47.5	46.9	47.0	48.6	(49.9)	(50.9)	(51.6)
13	50.2	50.2	50.2	49.9	49.8	49.8	48.8	48.9	48.2	47.7	47.7	48.2	49.3	50.2	51.3
14	50.0	50.3	49.9	49.9	49.5	49.4	50.0	50.0	49.2	48.4	49.2	51.3	52.3	51.6	51.3
15	49.1	48.7	49.2	48.8	48.8	49.0	49.8	48.8	47.5	47.7	48.4	49.9	51.7	52.2	51.5
16	49.5	49.4	49.4	49.4	49.4	49.2	48.9	47.8	46.4	46.2	48.2	50.4	50.8	50.4	51.2
17	49.7	50.2	50.2	49.6	49.3	49.2	48.6	47.2	47.2	47.2	47.5	49.1	50.4	51.1	50.4
18	50.6	50.6	50.6	50.3	49.9	49.7	49.7	49.0	48.2	48.3	49.2	50.2	52.4	52.7	51.9
19	50.0	50.0	50.0	50.0	49.9	49.6	49.6	48.8	48.0	47.6	47.8	50.0	52.4	52.9	52.0
20*	49.4	49.4	49.4	49.2	49.1	49.0	49.4	48.4	46.9	45.8	45.8	49.7	51.3	51.4	51.7
21	49.4	49.9	49.9	50.0	49.3	49.4	49.3	48.8	47.5	47.6	47.8	48.8	49.8	50.6	50.9
22	48.8	50.0	50.2	48.8	50.8	50.2	49.8	52.1	50.5	49.6	48.6	49.2	50.2	51.2	51.9
23	49.8	49.4	49.3	49.3	49.4	49.9	49.3	48.0	46.5	47.0	48.0	49.0	49.6	51.0	51.6
24	50.1	50.0	50.5	50.4	50.3	49.9	49.7	48.9	47.3	47.4	48.9	50.6	52.0	53.0	53.0
25*	49.8	49.8	49.8	49.8	49.8	49.8	50.1	50.0	48.9	48.5	48.3	49.4	51.0	52.0	52.4
26*	50.3	50.3	50.2	50.0	50.0	50.0	50.3	49.6	48.3	47.4	48.8	51.0	52.6	53.3	52.6
27*	50.0	50.1	50.2	50.0	50.0	49.9	50.0	49.7	48.6	47.8	48.0	50.0	51.8	52.9	52.8
28	49.7	49.9	50.3	50.7	49.9	49.7	49.8	49.8	48.3	47.8	47.8	49.1	51.6	52.6	52.1
29*	49.7	49.7	49.8	49.7	49.6	49.6	49.6	48.7	47.6	46.6	46.1	47.4	49.9	51.9	52.1
30	50.0	50.2	50.2	50.0	49.9	49.7	50.2	49.6	48.7	48.2	48.2	49.7	51.9	52.7	52.0
31	49.9	50.0	50.0	49.9	49.8	49.7	50.0	49.1	47.8	46.9	46.6	47.7	50.3	51.6	51.8
Mean.....	49.7	49.9	50.0	49.9	49.7	49.6	49.6	48.8	47.7	47.4	47.8	49.4	50.9	51.6	51.8
Mean*.....	49.9	50.0	50.0	49.8	49.7	49.6	49.7	48.8	47.7	47.1	47.5	49.4	51.0	51.8	52.0

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

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1° WEST PLUS TABULAR MINUTES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
/	/	/	/	/	/	/	/	/	/	<i>h</i>	<i>m</i>	/	<i>h</i>	<i>m</i>	/	/	
49.2	49.0	48.8	48.4	48.3	48.3	48.4	48.4	48.7	48.3	12	32	49.7	8	00	46.7	3.0	1
49.0	48.8	48.7	48.4	48.3	48.3	48.3	48.4	48.4	48.2	14	00	50.1	10	33	45.3	4.8	2
49.8	49.3	48.8	48.4	48.2	48.3	48.1	48.3	48.6	48.3	14	00	50.9	9	00	44.9	6.0	3
50.1	50.1	49.4	48.8	48.5	48.5	48.5	47.9	47.3	48.2	16	00	50.1	10	00	45.3	4.8	4
49.1	49.4	48.9	48.9	48.8	48.8	48.9	48.9	48.9	48.5	17	00	49.4	10	00	46.5	2.9	5
49.8	49.4	48.8	48.5	48.0	47.9	47.9	48.0	48.1	48.5	16	00	49.8	10	00	46.7	3.1	6
49.1	48.9	48.6	48.4	48.0	47.5	47.1	47.6	47.7	48.1	14	00	49.6	9	19	46.1	3.5	7
49.6	49.5	48.9	48.5	48.3	48.1	48.1	48.5	48.6	48.1	16	00	49.6	10	00	45.0	4.6	8
50.0	49.4	48.9	48.6	48.2	48.1	48.2	47.5	48.4	48.2	16	00	50.0	10	00	45.6	4.4	9
49.2	49.0	48.6	48.7	48.3	48.1	48.0	48.0	48.1	48.4	14	00	50.2	9	00	46.1	4.1	10
49.0	49.1	49.0	49.0	48.0	48.2	48.3	48.4	48.4	48.6	12	00	49.6	9	00	47.5	2.1	11
48.5	48.9	48.9	47.9	47.4	(47.6)	(48.0)	(48.2)	(48.5)	48.5	12	28	49.7	9	00	47.7	2.0	12
49.1	48.7	48.6	48.6	48.6	48.5	48.7	48.9	49.1	49.0	(7 00)	(49.5)	9	28	48.3	1.2	13	
49.4	49.3	49.1	49.1	49.1	49.1	49.1	49.1	49.3	48.9	12	00	49.7	9	27	46.9	2.8	14
49.7	49.3	48.8	48.8	49.0	48.7	49.0	49.2	49.2	48.8	14	00	50.0	9	21	46.6	3.4	15
48.9	49.2	48.6	48.6	48.2	48.6	48.7	48.8	49.2	48.5	1 00	49.5	10	00	46.2	3.3	16	
48.4	49.2	48.4	48.4	48.3	48.2	48.4	48.2	48.7	48.3	1 00	49.4	8	44	46.1	3.3	17	
50.1	49.7	49.3	48.8	48.3	47.8	47.9	47.8	48.8	48.8	16	00	50.1	8	26	47.8	2.3	18
50.6	49.9	49.3	49.0	48.9	48.7	48.6	48.6	48.9	49.0	15	00	51.0	9	41	47.3	3.7	19
50.5	49.6	49.4	49.0	48.6	47.9	48.5	48.5	48.6	48.8	15	00	51.0	11	00	46.5	4.5	20
52.0	51.5	49.9	48.4	48.3	46.3	47.8	48.6	48.5	48.9	14	42	52.4	9	57	46.2	6.2	21
50.4	48.9	48.8	48.7	48.2	48.2	48.3	48.3	48.8	48.8	15	00	50.8	9	51	46.3	4.5	22
50.2	49.8	49.2	48.8	48.7	48.6	48.7	48.9	48.9	48.9	16	00	50.2	8	00	47.6	2.6	23
50.2	50.1	49.2	48.7	48.7	48.7	48.6	49.1	48.6	48.9	14	36	50.9	10	00	46.4	4.5	24
50.1	49.4	49.2	48.7	48.6	48.8	48.7	48.7	48.8	49.2	14	22	51.3	9	45	47.3	4.0	25
50.2	49.2	49.1	48.8	48.7	48.7	48.7	48.9	49.4	49.0	13	52	51.5	9	30	46.0	5.5	26
50.3	49.4	49.1	49.0	49.1	49.1	49.2	49.2	49.3	48.9	14	34	51.2	9	34	45.8	5.4	27
50.2	49.0	48.7	48.7	48.6	48.6	48.7	48.8	49.2	48.8	15	00	50.7	9	24	45.7	5.0	28
50.3	49.6	49.1	49.0	48.6	48.5	48.8	48.8	49.2	48.9	15	00	51.1	10	00	46.2	4.9	29
50.2	50.4	49.8	49.6	49.5	49.5	49.5	49.8	49.7	48.8	17	00	50.4	9	00	25.7	4.7	30
49.8	49.4	49.0	48.7	48.5	48.3	48.5	48.5	48.7	48.6							3.9	
49.7	49.2	49.0	48.7	48.5	48.6	48.7	48.8	49.0	48.8							4.0	

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1° WEST PLUS TABULAR MINUTES.

51.7	50.5	49.6	49.4	49.5	49.4	49.6	49.7	50.2	49.8	15 00	52.2	9 23	47.4	4.8	1
50.5	49.7	49.2	49.3	48.3	48.7	48.8	49.1	49.4	49.5	15 00	51.3	8 36	47.8	3.5	2
51.2	49.9	49.5	49.2	49.2	49.2	49.2	49.4	49.6	49.7	14 29	52.5	9 39	47.3	5.2	3
(50.8)	49.9	49.8	49.7	49.4	49.5	49.5	49.7	49.7	49.4	(15 00)	(51.4)	9 29	47.3	4.1	4
51.1	50.4	49.9	49.4	49.3	49.4	49.4	49.5	49.6	49.3	15 00	51.4	10 41	46.3	5.1	5
51.3	50.5	49.3	49.2	49.1	49.2	49.4	49.5	49.6	49.4	15 00	52.0	10 00	45.7	6.3	6
50.8	50.1	49.4	49.2	49.2	49.1	49.1	49.6	50.0	49.4	15 00	51.4	9 42	46.4	5.0	7
50.4	48.7	47.4	47.8	46.2	46.8	46.4	45.9	46.8	49.1	3 08	53.7	23 14	51.4	2.3	8
50.3	49.7	49.4	49.0	48.6	48.2	48.2	48.6	48.7	48.9	14 34	50.8	10 00	47.3	3.5	9
51.6	50.8	50.2	50.2	49.8	49.8	50.0	50.2	50.2	49.6	16 00	51.6	9 09	47.0	4.6	10
51.5	50.8	49.9	49.8	49.3	49.5	49.6	49.7	49.8	49.8	15 00	52.2	10 00	46.6	5.6	11
(51.1)	50.4	49.9	49.8	49.7	49.5	49.9	50.1	50.2	49.6	(15 00)	(51.6)	9 43	46.8	4.8	12
51.0	50.4	49.6	49.6	49.7	49.5	49.7	49.8	50.0	49.6	15 23	51.3	10 00	47.7	3.6	13
50.6	49.4	49.4	48.9	48.7	48.6	48.7	48.8	48.7	49.8	13 10	52.3	10 00	48.4	3.9	14
51.0	49.4	48.5	48.8	48.4	49.2	48.8	49.4	49.3	49.3	14 06	52.1	9 14	46.9	5.2	15
50.4	50.2	49.3	49.5	48.8	48.9	48.8	48.7	49.4	49.2	15 11	52.1	9 48	45.4	6.7	16
(50.3)	50.2	50.0	49.9	49.9	49.7	49.8	50.1	50.3	49.5	14 00	51.1	9 08	46.8	4.3	17
51.0	50.1	50.0	49.9	49.6	49.6	49.9	50.0	50.0	50.1	13 42	53.0	9 24	48.1	4.9	18
50.8	50.2	49.8	49.6	49.2	49.1	49.1	49.1	49.4	49.8	14 00	52.9	10 00	47.6	5.3	19
50.8	49.9	49.8	49.8	49.5	49.3	49.3	49.5	49.6	49.3	15 00	51.7	10 29	45.4	6.3	20
50.8	50.3	49.9	49.8	49.0	48.8	45.8	47.2	48.2	49.1	15 00	50.9	22 00	45.8	5.1	21
51.0	49.4	46.7	48.8	46.9	45.3	46.8	47.2	48.0	49.2	8 19	54.0	20 53	45.0	9.0	22
51.4	50.9	50.7	50.3	49.9	49.5	48.9	49.5	49.9	49.5	14 43	51.6	9 10	46.3	5.3	23
52.0	51.0	50.6	50.2	49.7	49.6	49.5	49.5	49.7	50.2	14 28	53.3	9 10	47.0	6.3	24
51.8	50.7	50.2	49.9	49.9	50.0	50.1	50.1	50.3	50.1	14 38	52.5	11 00	47.9	4.6	25
51.4	50.0	49.8	49.8	49.7	49.8	49.8	49.8	49.9	50.2	14 17	53.5	10 30	47.2	6.3	26
51.6	50.4	50.0	49.8	49.6	49.6	49.7	49.3	49.6	50.1	14 09	53.0	10 00	47.8	5.2	27
51.1	50.4	49.8	49.5	49.3	49.2	49.2	49.2	49.2	49.8	14 20	53.0	10 00	47.8	5.2	28
51.2	50.2	49.4	49.5	49.4	49.5	49.7	49.9	49.9	49.4	15 00	52.1	11 00	46.1	6.0	29
50.9	50.2	49.7	49.4	49.3	49.3	49.4	49.6	49.8	50.0	14 00	52.7	9 54	48.0	4.7	30
51.2	50.3	49.8	49.6	49.4	49.1	49.4	49.7	50.0	49.6	15 00	51.8	11 00	46.6	5.2	31
51.1	50.2	49.6	49.5	49.1	49.1	49.1	49.3	49.5	49.6					5.1	
51.2	50.2	49.8	49.6	49.5	49.5	49.6	49.7	49.9	49.7					5.0	

NOTE.—Values in parentheses were interpolated.

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29000 γ PLUS TABULAR QUANTITIES

Day	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	13h	14h	15h
1	278	278	279	281	280	277	286	286	282	281	280	272	270	288	260
2*	272	272	272	273	275	279	281	284	281	283	288	281	271	262	264
3	268	268	270	273	273	274	276	282	280	276	273	271	266	267	267
4	274	268	269	271	272	277	280	290	287	293	289	278	280	269	260
5	253	256	262	264	272	274	287	291	297	291	291	274	216	201	202
6	226	233	236	238	237	240	247	250	255	261	265	256	246	244	245
7	250	250	252	254	255	255	260	265	262	261	263	260	255	261	264
8	256	257	259	260	261	263	265	271	271	269	270	274	272	275	278
9	262	262	264	267	269	272	275	278	278	279	278	271	270	266	273
10*	259	261	267	268	271	274	281	284	279	275	270	263	257	259	262
11*	264	257	254	254	258	265	268	275	275	269	270	268	256	248	249
12*	272	275	275	272	273	277	280	281	276	271	265	269	265	256	250
13*	272	269	269	269	271	270	275	281	277	278	277	274	265	263	254
14	268	268	271	282	281	281	278	286	285	280	276	272	263	256	261
15	249	253	253	257	258	260	263	269	269	268	272	269	255	250	256
16	266	266	266	266	267	268	274	280	278	273	272	266	258	260	268
17	240	246	256	260	263	263	267	267	270	267	259	249	248	253	254
18*	254	262	265	265	268	268	275	278	275	271	268	271	262	258	259
19	267	268	269	270	270	274	278	281	282	279	280	280	269	266	261
20	253	253	257	262	266	272	275	284	(285)	(285)	(287)	(287)	276	270	267
21*	262	261	263	265	266	268	272	276	274	275	275	264	251	253	254
22	264	265	261	261	272	270	276	286	282	271	275	261	256	254	252
23	262	262	262	262	263	266	271	273	269	271	275	278	274	266	270
24	270	269	270	273	277	275	275	274	269	263	264	257	250	257	267
25	252	258	260	261	263	264	264	268	270	269	271	252	249	261	267
26*	263	264	266	266	267	267	267	266	264	264	267	262	262	262	262
27*	260	260	261	262	263	264	266	270	270	269	268	269	268	262	257
28	269	268	271	271	272	268	(276)	(280)	(283)	(285)	277	273	280	287	270
29*	257	262	262	273	269	271	278	277	275	276	280	274	276	259	262
30	259	258	257	259	257	257	266	267	269	273	266	254	251	247	249
31	266	267	267	267	268	284	(289)	(288)	(284)	(288)	(285)	265	261	267	262
Mean.....	261	262	263	265	267	269	273	277	276	275	274	268	261	260	259
Mean*.....	264	264	265	267	268	270	274	277	275	273	273	270	263	258	258

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29000 γ PLUS TABULAR QUANTITIES.

1	254	257	259	264	267	269	278	277	274	276	281	270	262	263	264
2	244	246	251	254	256	259	266	277	284	282	277	267	256	260	264
3	256	235	237	240	238	243	245	238	243	257	257	244	211	188	192
4	227	230	232	235	237	238	249	257	252	249	248	240	234	232	205
5	236	242	255	244	254	251	256	258	239	234	237	238	228	207	216
6	235	239	242	239	244	250	255	253	255	244	251	244	237	233	239
7*	247	248	249	250	251	252	261	264	260	249	248	243	244	242	233
8	236	243	245	245	249	253	257	263	261	257	252	250	248	252	246
9	255	256	255	255	258	259	262	266	258	255	249	251	254	251	253
10	250	250	252	251	254	256	261	260	258	252	251	244	243	243	241
11*	249	249	252	252	254	256	261	264	263	262	259	251	250	251	252
12	263	264	266	267	270	269	273	275	270	270	272	265	256	257	256
13	(250)	(249)	(250)	(252)	(252)	(254)	(257)	(261)	259	257	256	254	253	255	253
14	246	249	251	254	249	260	262	265	273	278	279	263	263	250	237
15*	245	250	251	253	260	260	257	274	276	272	269	265	255	251	251
16	243	238	245	250	255	257	265	267	264	268	269	264	257	257	256
17*	243	242	244	246	250	257	260	263	267	266	263	261	260	260	255
18*	244	246	247	247	250	250	256	258	258	258	256	254	258	260	260
19*	254	254	256	258	258	263	268	273	269	266	262	259	256	253	249
20*	254	255	256	258	258	261	262	267	269	270	274	278	275	274	268
21*	260	263	264	263	262	268	271	279	280	278	279	283	277	272	272
22	257	256	255	256	258	263	271	275	273	271	270	268	267	272	268
23	239	241	247	262	258	252	265	276	278	277	271	261	251	243	245
24	244	246	247	251	255	254	259	263	264	260	258	251	254	259	260
25*	253	256	259	259	257	262	264	263	258	262	258	259	250	246	245
26	257	258	260	260	264	263	268	274	274	270	266	258	252	246	252
27*	245	245	247	250	252	255	259	269	274	274	271	262	256	245	237
28	251	252	256	258	260	263	268	274	279	280	284	289	287	284	278
Mean.....	248	249	251	253	255	257	262	266	265	264	263	258	253	250	248
Mean*.....	249	251	252	254	255	258	262	267	267	266	264	262	258	255	252

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF HORIZONTAL INTENSITY.

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 29000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h m	h m	γ	
261	267	270	269	266	267	267	267	269	274	14 00	288	15 00	260
267	268	270	265	266	263	265	265	267	272	11 12	288	14 00	262
273	274	274	273	280	280	273	267	268	273	8 00	282	22 51	263
248	244	232	229	229	234	236	244	249	263	10 11	293	19 42	226
215	233	243	211	212	228	233	231	230	249	11 22	298	19 32	189
242	245	247	254	253	252	251	249	250	247	11 05	266	1 00	226
269	263	259	255	249	252	254	254	257	257	16 00	269	19 55	248
280	278	272	268	266	264	265	265	264	268	16 00	280	0 02	255
280	283	283	280	274	257	256	260	260	271	18 00	283	21 33	253
271	272	272	266	271	270	270	271	268	269	8 00	284	13 00	257
257	265	267	267	268	267	267	269	272	264	8 31	276	14 48	248
253	262	262	264	265	264	265	268	265	268	8 07	281	15 27	248
272	272	268	267	267	268	267	268	270	271	8 00	281	14 00	263
249	247	235	228	224	232	239	251	249	261	8 23	287	19 30	222
259	260	262	264	263	264	264	265	265	261	11 07	272	0 01	249
267	263	264	262	265	251	253	232	233	263	8 36	280	22 52	230
251	248	249	254	257	255	255	256	257	256	9 27	270	0 04	232
261	260	262	263	264	265	265	267	267	266	8 17	279	1 00	254
255	254	248	242	241	244	244	261	253	264	9 00	282	19 27	240
266	255	262	263	262	257	259	260	262	268	(11 00)	(287)	1 00	253
254	257	254	258	248	247	252	254	264	261	8 00	276	20 37	246
245	243	247	247	247	250	255	259	260	261	8 19	291	16 42	240
267	260	256	255	255	256	257	260	270	265	11 14	278	19 53	254
268	253	243	243	253	253	255	254	255	262	5 00	277	18 14	241
264	257	252	249	252	255	254	259	264	260	10 41	273	19 23	245
257	256	256	257	256	258	256	258	258	262	8 21	268	20 29	256
258	253	255	253	260	262	264	266	266	263	8 00	270	17 00	253
268	261	263	266	269	267	265	264	259	271	14 00	287	17 19	258
248	249	254	255	254	255	256	260	260	264	11 00	280	17 38	248
250	253	259	263	263	263	265	269	268	260	9 46	274	14 00	247
245	251	251	255	257	256	254	251	254	266	(7 00)	(289)	16 00	245
259	258	258	256	257	257	257	259	260	264				35
260	261	262	262	262	262	263	264	266	266				25

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 29000 γ PLUS TABULAR QUANTITIES.

262	257	243	247	251	260	251	234	229	260	11 02	281	23 38	225	56	1
258	252	254	256	258	260	276	263	269	262	9 00	284	0 01	229	55	2
192	149	186	205	214	218	217	222	232	223	0 00	269	17 11	142	127	3
218	220	225	224	220	230	232	233	235	234	8 08	257	14 49	201	56	4
213	220	230	234	238	228	227	226	233	235	8 00	258	13 53	206	52	5
241	236	230	236	240	241	243	245	246	242	9 07	256	18 05	229	27	6
228	220	221	222	231	235	234	236	238	242	8 00	264	17 38	218	46	7
245	246	248	247	245	247	248	250	252	249	8 32	264	1 00	236	28	8
244	244	244	248	251	249	250	250	252	253	8 00	266	17 30	242	24	9
241	254	252	250	249	247	245	249	250	250	7 37	262	16 03	240	22	10
254	255	255	258	259	258	260	260	265	256	8 29	265	1 00	249	16	11
253	(251)	(249)	(247)	(247)	(245)	(247)	(247)	(249)	260	7 46	276	(21 00)	(245)	31	12
254	250	245	243	241	241	236	234	241	250	(8 00)	(261)	22 22	234	27	13
237	238	221	236	238	239	236	239	242	250	11 05	281	17 40	216	65	14
249	244	232	239	240	244	247	243	236	253	8 39	276	18 14	227	49	15
252	234	229	234	237	239	242	260	255	252	10 24	271	17 36	226	45	16
248	246	237	242	248	247	244	246	245	252	9 43	268	18 20	233	35	17
256	251	246	249	252	252	252	252	253	253	15 00	260	1 00	244	16	18
248	244	244	245	246	248	249	251	253	255	8 08	273	17 49	244	29	19
263	259	255	249	248	255	259	257	258	262	11 19	279	19 27	244	35	20
268	258	255	257	253	256	258	258	260	266	12 00	283	19 26	252	31	21
247	239	249	252	237	216	214	224	229	254	8 53	276	21 25	204	72	22
243	236	235	235	234	235	240	247	239	250	9 24	279	21 40	230	49	23
254	251	251	251	249	249	250	250	250	253	9 00	264	0 00	239	25	24
240	235	242	247	251	255	255	256	258	254	8 17	265	16 56	234	31	25
255	252	246	245	246	244	245	243	246	256	8 24	275	22 38	243	32	26
237	237	236	234	238	242	246	246	249	250	8 54	274	19 00	234	40	27
267	262	263	262	264	263	263	265	264	268	12 00	289	0 25	248	41	28
245	241	240	243	244	244	245	246	247	252					42	
249	245	242	244	247	249	250	250	252	254					33	

NOTE.—Values in parentheses were interpolated.

MARCH, 1905.

29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	$\bar{\gamma}$ 265	$\bar{\gamma}$ 265	$\bar{\gamma}$ 266	$\bar{\gamma}$ 270	$\bar{\gamma}$ 277	$\bar{\gamma}$ 278	$\bar{\gamma}$ 282	$\bar{\gamma}$ 288	(292)	(292)	(294)	$\bar{\gamma}$ 292	$\bar{\gamma}$ 286	$\bar{\gamma}$ 272	$\bar{\gamma}$ 263
2	232	239	245	252	249	246	258	267	276	213	247	279	253	244	253
3	222	223	219	221	222	221	230	233	233	235	235	238	243	241	232
4	219	221	223	228	231	233	240	245	242	241	240	240	242	241	239
5	249	244	245	241	247	243	247	243	254	246	234	240	253	258	271
6	240	239	244	248	249	247	251	253	258	259	263	278	283	272	266
7	251	242	241	252	245	241	237	237	258	261	258	251	252	248	243
8	239	239	238	243	248	244	244	252	246	243	241	238	237	242	243
9	252	253	255	257	258	260	265	268	270	265	270	273	270	(265)	(262)
10	(255)	(256)	(257)	(257)	(258)	(259)	(265)	(269)	(270)	(270)	269	269	262	270	267
11*	262	262	262	263	263	267	273	(274)	(275)	(276)	(275)	(277)	277	272	271
12*	257	257	257	256	258	257	261	270	266	271	(273)	275	271	265	261
13*	248	253	251	252	253	254	260	264	267	266	260	258	258	257	254
14	255	258	260	261	260	266	267	270	273	270	270	274	275	275	277
15	240	240	243	251	254	255	268	266	273	(278)	278	273	269	267	256
16	246	240	259	253	258	252	254	260	263	262	265	267	261	254	246
17	249	250	253	253	257	258	261	261	259	265	(269)	(276)	280	272	258
18*	259	258	259	263	264	261	264	265	265	269	272	278	281	272	267
19*	263	257	262	260	259	259	267	271	276	(279)	(281)	281	282	279	272
20*	254	257	259	260	262	263	265	268	270	276	281	284	281	266	259
21*	260	262	261	263	265	265	272	276	277	279	285	288	289	288	280
22	265	265	266	267	272	276	276	276	273	275	284	289	297	304	292
23*	262	262	263	265	265	263	268	266	264	263	269	265	269	274	272
24	264	269	265	269	270	270	271	271	272	272	277	281	291	294	289
25*	265	265	265	268	272	271	274	277	284	284	287	288	288	286	281
26	263	262	263	264	264	266	273	(283)	(291)	(294)	(299)	(298)	(295)	290	277
27	264	261	269	269	273	276	279	289	289	292	291	282	271	268	263
28	258	260	261	262	262	263	264	269	273	276	277	278	275	272	270
29*	277	274	277	278	279	280	282	282	283	285	(285)	(287)	(287)	288	(290)
30	273	273	274	274	274	278	(277)	(281)	(285)	(283)	(287)	(289)	283	273	263
31	264	263	266	267	269	271	276	283	284	285	(290)	287	286	283	279
Mean	254	254	256	258	259	259	264	267	270	268	271	273	272	269	265
Mean*	261	261	262	263	264	264	269	271	273	274	277	278	278	275	271

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29000 γ PLUS TABULAR QUANTITIES.

1	252	239	239	248	242	242	254	262	290	256	256	259	241	252	247
2	(251)	(252)	(254)	(254)	(253)	(246)	(259)	(247)	243	243	250	252	248	240	231
3	239	235	234	241	242	243	243	242	241	245	241	245	253	249	247
4*	256	251	259	259	253	252	251	248	249	257	266	263	261	261	258
5*	247	251	249	247	251	252	255	256	259	255	255	245	244	244	245
6*	251	250	251	252	255	253	249	248	260	269	273	272	274	271	264
7	247	250	251	253	252	252	249	247	244	253	258	264	264	264	260
8	261	258	257	258	258	257	250	255	254	257	257	254	261	261	264
9	254	254	256	258	259	258	258	258	255	258	265	269	270	267	259
10*	247	248	248	250	248	247	250	254	261	269	272	267	266	259	260
11*	252	259	257	257	256	258	257	255	256	263	263	258	259	261	256
12*	256	259	262	265	266	267	267	270	270	278	280	277	276	267	257
13	246	251	253	253	256	256	254	252	257	262	267	263	261	260	256
14	251	251	252	255	255	257	(257)	256	255	268	271	273	275	273	282
15	238	243	242	245	251	250	253	250	249	252	250	253	256	259	257
16*	251	252	254	255	257	258	260	261	266	271	273	271	271	264	258
17	252	252	256	256	255	254	256	260	263	273	277	277	278	274	265
18	249	250	251	251	254	253	252	255	263	274	282	282	278	276	270
19	256	258	258	259	259	261	261	266	273	283	287	288	289	285	268
20*	253	262	264	259	263	264	264	263	264	267	267	263	264	263	257
21	238	242	247	251	254	262	266	266	265	265	268	273	266	264	263
22*	255	256	258	259	258	257	256	258	259	267	269	268	268	269	269
23*	257	256	258	260	262	264	268	272	278	280	278	275	274	271	268
24	262	263	266	262	263	266	267	270	275	281	281	280	277	277	278
25	266	264	266	267	266	266	267	268	275	278	279	282	284	292	293
26	252	253	256	259	263	272	273	279	290	290	279	279	279	276	274
27	269	273	274	275	274	275	276	275	276	277	276	271	270	263	260
28	250	252	255	254	256	256	261	272	281	286	289	286	287	284	277
29	262	259	259	261	263	261	259	262	274	275	273	270	270	264	251
30	257	258	258	260	260	259	259	257	262	263	263	260	263	268	257
Mean	253	253	255	256	257	257	258	259	264	267	269	268	268	266	262
Mean*	252	254	256	256	257	257	258	258	262	268	270	266	266	263	259

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF HORIZONTAL INTENSITY.

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 29000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
253	247	245	245	244	243	233	232	228	265	11	00	294	23	56	227	67	1
239	213	198	189	214	220	218	216	215	236	9	05	285	19	00	189	96	2
221	210	207	200	196	203	204	201	205	221	13	07	244	19	53	196	48	3
232	229	229	227	230	235	236	236	240	234	8	11	245	0	01	205	40	4
262	249	243	239	248	243	236	241	250	247	14	57	273	11	00	234	39	5
267	266	263	252	248	259	260	278	262	259	12	45	286	0	44	239	47	6
224	229	223	229	227	235	235	238	240	242	9	34	265	16	10	223	42	7
239	239	243	243	237	236	241	242	248	242	8	00	252	21	00	236	16	8
(260)	(256)	(247)	(246)	(246)	(250)	(251)	(250)	(250)	258	12	00	273	(20	00)	(246)	27	9
262	257	257	259	259	258	259	260	262	262	14	00	270	(0	00)	(250)	20	10
268	261	251	246	248	255	252	255	254	264	12	00	278	19	13	244	34	11
262	254	245	245	249	247	243	247	245	258	12	00	275	22	00	243	32	12
258	253	245	238	242	248	249	251	251	254	9	48	267	19	10	237	30	13
269	243	236	227	210	213	231	225	233	254	15	00	277	19	54	209	68	14
243	240	243	234	244	249	245	244	251	254	(10	00)	(278)	18	55	232	46	15
244	246	247	246	248	250	255	251	248	253	11	35	270	16	43	244	26	16
252	251	253	256	255	253	256	258	257	259	13	00	280	0	00	248	32	17
268	271	265	259	258	259	257	258	260	265	13	00	281	0	01	257	24	18
263	253	249	249	249	248	251	251	253	263	13	00	282	21	00	248	34	19
256	251	249	248	249	253	255	257	261	262	11	20	284	19	22	247	37	20
271	260	255	255	258	260	264	266	267	269	13	00	289	19	00	255	34	21
277	269	264	259	253	256	258	256	258	272	14	00	304	20	00	253	51	22
267	265	261	256	253	253	260	259	260	264	14	00	274	20	00	253	21	23
283	275	267	260	257	258	259	262	263	271	13	12	294	19	49	257	37	24
274	267	265	263	262	263	262	262	263	272	12	00	288	20	00	262	26	25
269	264	263	259	249	251	260	261	263	272	(11	00)	(290)	20	31	247	52	26
255	248	248	250	252	250	255	256	257	267	11	19	294	17	26	244	50	27
268	266	266	265	265	267	274	273	276	268	12	00	278	0	00	257	21	28
284	277	268	267	267	270	271	272	273	278	(15	00)	(290)	19	00	267	23	29
260	250	252	248	246	249	256	261	264	269	(12	00)	(289)	19	47	245	44	30
275	269	263	261	257	260	272	256	251	273	(11	00)	(290)	23	55	241	49	31
250	253	249	246	246	249	250	251	252	259							39	
267	261	255	253	254	256	256	258	259	265							29	

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 29000 γ PLUS TABULAR QUANTITIES.

225	(217)	(209)	(200)	(196)	(224)	(233)	(235)	(253)	240	9	02	298	(20	00)	(196)	102	1
228	211	219	219	227	230	231	243	237	240	(7	00)	(259)	17	28	209	50	2
245	244	248	245	246	249	250	249	261	245	23	45	261	2	08	233	28	3
249	240	239	238	241	244	242	254	249	252	10	52	266	18	33	237	29	4
242	238	242	246	249	253	245	243	247	248	9	29	262	17	34	234	28	5
257	252	246	244	244	245	246	248	247	255	10	56	274	20	23	241	33	6
257	253	255	255	249	248	251	255	257	254	11	15	264	9	00	244	20	7
262	255	252	251	252	250	253	253	253	256	15	00	264	21	00	250	14	8
246	234	232	231	235	239	243	244	247	252	11	37	270	18	46	230	40	9
255	251	246	244	242	238	242	247	249	252	11	00	272	21	10	238	34	10
253	249	250	253	256	255	254	255	258	256	10	18	264	17	49	249	15	11
255	254	244	237	240	247	250	249	249	260	10	39	281	19	36	237	44	12
250	247	249	249	250	249	253	252	251	254	11	08	268	17	43	246	22	13
266	253	244	250	254	255	253	239	235	258	15	00	282	23	50	231	51	14
253	249	246	247	249	251	249	252	251	250	14	00	259	0	00	235	24	15
252	248	247	244	244	244	247	247	249	256	10	48	274	19	39	243	31	16
256	249	249	248	246	247	249	251	252	258	10	27	278	20	00	246	32	17
262	257	257	257	255	256	255	255	256	260	11	12	282	1	00	249	33	18
257	249	250	252	251	250	259	267	262	265	13	00	289	17	30	249	40	19
251	249	253	254	254	253	253	251	252	259	10	00	267	17	09	247	20	20
258	253	251	254	254	253	252	252	255	257	12	00	273	1	00	238	35	21
267	262	258	255	256	254	254	255	255	260	10	27	270	21	00	254	16	22
264	261	260	261	262	261	260	258	259	265	10	00	280	0	00	255	25	23
277	276	272	271	270	267	265	265	267	271	11	00	281	0	00	259	22	24
288	281	277	276	270	270	271	265	266	274	15	00	293	23	36	261	32	25
269	263	261	261	263	264	266	266	267	269	9	20	292	0	42	251	41	26
255	250	254	254	255	254	254	254	254	265	8	25	278	17	00	250	28	27
270	274	274	276	263	246	252	253	258	267	10	56	289	21	08	246	43	28
251	246	237	233	234	234	244	250	254	256	9	52	275	19	30	229	40	29
240	232	227	224	225	226	234	236	240	250	14	00	268	19	46	221	47	30
255	250	248	248	248	249	250	251	253	257							34	
254	250	248	248	249	249	249	251	251	256							28	

NOTE.—Values in parentheses were interpolated.

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29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	240	243	248	245	241	245	248	252	260	261	261	259	254	253	251
2	248	247	250	254	251	254	252	252	256	259	264	266	268	267	263
3*	258	255	255	256	257	261	261	265	270	275	273	271	268	263	259
4*	256	254	254	253	254	255	252	255	265	271	275	277	277	277	271
5	253	253	253	254	254	256	259	256	256	259	261	263	268	266	259
6*	259	261	261	261	261	265	270	276	278	280	280	279	283	280	274
7*	269	267	266	265	265	267	268	265	273	279	281	278	273	269	265
8	260	260	261	261	262	266	273	277	280	279	280	277	272	267	268
9	259	261	263	260	260	264	266	265	265	264	267	270	273	271	272
10	261	259	260	262	263	266	266	267	268	267	263	259	255	256	259
11	256	259	259	262	262	266	266	266	269	266	267	267	267	267	266
12	264	265	268	270	269	272	272	272	277	281	272	277	267	263	265
13	266	266	271	271	277	279	279	273	274	281	287	282	280	271	269
14*	259	259	260	262	261	262	257	259	267	(273)	(282)	(283)	(283)	(279)	273
15*	261	263	263	263	267	269	269	268	(272)	(277)	(279)	(277)	(276)	272	271
16*	268	268	270	270	269	269	262	261	270	(281)	(290)	(293)	(292)	(292)	287
17	266	268	269	270	269	267	260	256	259	262	271	270	265	267	268
18	259	261	263	262	264	263	252	243	252	263	271	275	270	269	275
19	261	260	258	258	253	254	250	250	256	263	266	268	269	266	261
20	263	258	254	254	253	256	258	255	261	268	277	282	282	279	269
21*	252	254	255	256	253	254	258	262	265	266	266	264	258	250	245
22	257	256	257	(258)	(258)	(258)	(263)	261	259	256	263	270	277	278	274
23	269	268	270	272	271	277	272	277	(288)	(295)	(302)	(296)	(288)	278	266
24*	264	266	266	265	265	270	(277)	(277)	(283)	(280)	(282)	(278)	276	272	267
25	250	251	253	255	257	262	264	260	258	256	260	262	258	259	257
26*	254	254	255	257	259	260	263	262	268	272	278	271	263	260	252
27	257	256	267	262	262	268	270	265	268	272	272	273	265	264	239
28	252	248	247	246	246	247	246	250	254	254	258	254	254	250	244
29	245	247	245	245	247	252	255	261	260	258	252	249	251	245	238
30	254	251	249	248	252	257	261	269	(279)	(281)	(282)	276	270	259	249
31	250	253	254	257	259	259	257	255	258	259	258	257	263	264	256
Mean.....	258	258	259	259	259	262	262	262	267	270	272	272	270	267	262
Mean*.....	260	260	260	261	261	263	264	265	271	275	279	277	275	271	266

JUNE, 1905.

29000 γ PLUS TABULAR QUANTITIES.

1	254	250	255	253	252	†...	...	...	...	...	...	...	...	...	...
2*	256	260	255	255	256	260	259	254	256	261	267	271	270	270	263
3	251	252	252	256	256	256	255	252	253	258	253	260	266	265	262
4	271	271	270	272	271	273	277	273	264	254	260	276	278	271	266
5	275	284	277	280	285	283	284	276	257	242	226	225	240	247	244
6	261	255	254	255	260	259	261	269	269	260	273	269	265	270	265
7*	258	253	261	254	256	260	262	262	262	266	268	268	269	264	256
8	255	256	256	257	256	258	262	272	275	285	291	281	283	281	273
9	259	257	260	263	265	273	265	263	267	267	274	284	268	273	266
10	265	262	259	259	259	268	250	251	262	262	249	241	228	223	216
11*	243	245	245	247	249	251	253	249	252	260	268	262	258	250	250
12	243	247	250	246	250	250	253	258	260	258	247	242	238	237	238
13	245	244	244	245	247	250	249	246	250	254	253	248	245	243	245
14*	250	249	246	250	251	253	256	254	259	265	262	263	261	252	251
15*	248	252	253	251	258	261	259	265	259	258	269	273	271	262	254
16	251	248	243	243	244	248	248	245	247	254	265	263	262	261	255
17	250	251	251	250	249	250	248	251	251	254	255	254	253	257	254
18*	250	249	249	248	248	251	247	241	240	244	248	254	262	262	253
19*	252	251	252	251	251	250	247	242	243	249	259	256	260	262	262
20	258	260	258	259	259	258	257	256	270	281	295	296	293	288	277
21	265	264	265	266	267	271	276	274	276	277	277	275	275	275	266
22	262	258	256	270	264	262	263	260	264	264	265	271	263	259	255
23	253	267	260	255	245	268	262	252	248	248	244	236	222	222	226
24	243	246	251	250	(245)	(255)	(250)	(237)	(243)	249	259	262	262	268	267
25	251	247	245	247	249	251	252	250	256	271	273	272	271	271	269
26*	248	251	251	252	256	258	254	252	249	251	252	256	266	268	265
27	248	248	251	249	251	249	248	253	246	261	262	265	263	257	248
28*	257	256	255	256	257	260	259	263	269	277	286	289	283	279	270
29*	264	263	265	264	265	265	266	270	276	278	273	268	258	253	260
30	257	254	253	250	252	258	257	264	269	274	277	279	268	(262)	(253)
Mean.....	255	255	255	255	256	259	258	257	258	261	264	264	262	260	256
Mean*.....	253	253	253	253	255	257	256	255	256	261	265	266	266	262	258

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

† Moved Eschenhagen magnetograph to the center of the room.

HOURLY VALUES OF HORIZONTAL INTENSITY.

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MAY, 1905.

 29000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
248	243	246	243	245	249	246	257	252	250	9	55	261	19	41	239	22	1
262	258	256	258	255	266	258	256	258	257	12	50	270	0	40	247	23	2
257	250	244	250	249	249	254	255	255	259	9	56	275	18	23	243	32	3
265	261	255	259	258	257	256	254	254	261	11	48	278	7	00	252	26	4
251	242	246	249	250	253	255	257	261	256	13	00	268	17	04	242	26	5
271	266	264	264	267	264	266	267	269	269	13	00	283	1	00	259	24	6
260	253	254	254	245	246	251	256	260	264	10	16	270	20	43	245	36	7
262	249	253	254	255	252	252	254	257	264	9	42	280	17	07	248	32	8
271	263	258	254	254	254	257	258	259	263	13	00	273	19	39	252	21	9
260	259	258	258	258	260	259	259	258	261	9	30	269	13	00	255	14	10
261	256	257	260	261	259	263	265	264	263	9	00	269	17	24	256	13	11
264	262	265	261	262	262	265	268	269	268	10	00	281	19	15	260	21	12
264	260	260	260	260	260	257	260	258	269	10	36	288	22	00	257	31	13
268	263	262	262	262	262	263	263	262	266	(12	00)	(283)	0	00	258	25	14
271	269	267	272	270	269	268	269	267	270	(11	00)	(279)	1	00	261	18	15
278	268	263	264	264	264	265	264	264	272	(12	00)	(293)	18	00	261	32	16
270	262	257	251	249	255	259	263	259	263	11	09	274	20	07	247	27	17
276	264	263	259	257	251	252	259	259	262	16	00	276	8	00	243	33	18
254	245	246	248	250	253	256	258	262	257	11	27	270	17	38	242	28	19
260	252	247	245	246	247	247	251	252	259	12	22	283	19	23	244	39	20
244	244	245	249	252	257	257	257	258	255	10	35	267	17	11	244	23	21
265	270	267	269	272	271	271	271	272	266	14	00	278	2	00	256	22	22
265	260	267	264	256	251	254	260	261	272	(11	00)	(302)	21	07	248	54	23
261	256	250	254	258	258	256	255	256	266	(9	00)	(283)	17	54	249	34	24
256	252	251	252	252	253	253	255	254	266	7	00	264	1	00	250	14	25
246	242	244	241	245	244	255	251	251	256	11	00	278	18	50	241	37	26
233	236	226	226	235	251	247	248	252	255	10	19	276	18	48	224	52	27
249	246	256	254	261	258	248	247	245	251	20	24	267	16	37	245	22	28
242	242	247	250	248	258	247	250	256	250	8	10	262	15	01	238	24	29
242	245	246	247	243	244	248	253	249	256	(11	00)	(282)	19	48	241	41	30
253	251	249	251	255	255	256	256	258	256	14	00	264	18	00	249	15	31
259	254	254	254	255	256	256	258	258	261							28	
262	257	255	257	257	259	259	259	260	264							29	

JUNE, 1905.

 29000 γ PLUS TABULAR QUANTITIES.

...	254	253	258	258	260	259	259	258	...	...	...	...	...	...	...	...	...
260	254	249	254	254	262	260	258	255	259	12	18	272	17	34	248	24	1
259	257	257	262	262	263	271	267	265	259	12	41	269	1	00	251	18	2
264	257	254	257	261	263	276	268	270	267	6	46	280	18	00	254	26	3
239	240	243	247	249	248	253	258	260	257	4	47	288	11	40	221	67	4
275	264	260	253	253	256	258	259	259	262	10	27	283	19	39	251	32	5
249	247	248	251	253	250	249	250	253	257	11	10	269	17	17	247	22	6
279	274	265	256	252	257	256	255	255	266	10	57	292	20	09	249	43	7
262	249	255	258	260	261	263	264	263	264	11	58	285	17	10	246	39	8
224	210	209	226	232	240	248	249	249	243	6	08	270	17	41	205	65	9
243	(237)	(233)	(241)	243	248	243	243	242	248	11	00	268	(18	00)	(233)	35	10
239	244	244	243	244	249	246	243	240	246	8	38	263	13	16	237	26	11
249	251	249	254	252	250	252	254	254	249	9	49	256	14	30	243	13	12
251	250	250	248	248	252	251	251	251	253	9	56	266	19	00	248	18	13
245	243	240	242	240	246	246	247	248	254	12	00	273	16	21	240	33	14
251	247	247	250	251	253	250	247	249	251	10	56	265	4	00	243	22	15
250	247	244	248	248	251	252	251	251	251	14	00	257	18	00	244	13	16
252	248	246	250	250	253	252	252	251	250	13	06	263	9	00	240	23	17
259	254	252	253	253	254	255	255	254	253	14	00	262	8	00	242	20	18
264	(264)	264	269	269	270	277	275	274	270	12	00	296	0	00	254	42	19
267	265	255	250	246	254	258	260	252	266	10	22	279	19	28	244	35	20
261	249	244	242	224	228	234	236	243	254	12	03	272	20	34	217	55	21
231	228	238	235	240	245	241	242	243	244	6	13	270	14	00	222	48	22
258	248	242	245	245	248	248	247	254	251	13	55	268	(8	00)	(237)	31	23
256	249	248	251	253	257	254	248	247	256	10	32	275	3	00	245	30	24
260	251	250	254	251	250	249	247	247	254	13	24	268	23	24	246	22	25
245	251	255	260	261	259	260	259	258	254	12	16	266	16	00	245	21	26
262	259	259	262	264	266	267	266	265	266	12	16	290	3	00	255	35	27
258	255	250	246	249	250	250	253	254	261	10	11	278	18	55	245	33	28
(246)	241	232	228	238	243	257	243	249	254	11	24	280	18	39	226	54	29
254	249	248	249	250	253	254	253	254	256							33	
254	250	248	250	250	253	252	252	252	255							26	

NOTE.—Values in parentheses were interpolated.

JULY, 1905.

29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	250	253	254	254	256	261	266	264	271	282	287	286	280	275	266
2*	257	256	255	255	255	256	258	260	262	264	263	266	262	261	257
3	250	250	252	252	254	254	253	254	265	274	286	287	285	279	275
4	260	262	261	261	261	261	261	260	270	277	280	284	289	295	287
5	255	258	259	260	262	261	259	257	261	270	279	284	287	281	272
6	231	239	244	240	251	259	253	256	262	259	248	262	250	254	246
7	241	247	241	246	247	249	250	248	246	245	234	242	247	258	262
8	249	249	248	253	252	250	250	248	249	254	250	257	263	255	256
9	242	247	248	244	244	247	251	250	246	243	247	250	250	252	249
10*	246	245	248	248	250	252	254	256	262	265	271	266	264	258	256
11*	245	243	244	245	247	249	254	259	257	266	268	267	263	257	248
12*	241	244	246	243	245	247	253	258	263	272	272	272	267	256	254
13	253	254	255	255	260	264	263	251	251	249	251	250	251	256	249
14	252	254	253	256	249	244	239	232	234	249	257	255	257	252	243
15	248	246	246	243	243	247	248	249	258	265	269	264	265	262	257
16	254	255	256	256	256	257	260	271	278	283	287	283	271	259	246
17*	259	262	266	266	262	262	255	258	262	272	278	277	271	264	253
18	255	257	258	259	259	260	260	258	272	287	300	306	311	303	292
19*	259	257	257	259	256	255	249	251	256	262	266	269	266	258	259
20*	257	259	258	259	257	259	259	259	268	274	281	282	277	270	265
21*	253	252	253	251	252	256	257	259	259	260	265	271	272	264	256
22	257	258	256	255	255	255	253	257	263	279	286	295	298	288	272
23	255	255	263	271	284	288	282	286	284	288	290	295	294	289	264
24	265	264	282	274	260	275	271	264	260	251	249	240	232	226	222
25	238	239	245	242	242	246	252	261	264	268	272	275	273	263	253
26	248	250	249	251	251	249	248	247	255	263	266	264	254	249	248
27	262	260	259	260	262	265	268	267	268	279	288	284	276	264	256
28	227	234	239	245	247	251	254	249	257	(252)	(252)	(251)	(249)	(248)	(247)
29*	250	246	245	245	250	255	262	271	275	274	276	280	275	270	267
30	250	250	250	251	250	255	258	265	256	259	265	267	270	269	265
31	252	251	250	249	249	251	256	261	267	267	264	262	258	261	258
Mean.....	250	251	253	253	254	256	256	258	261	266	269	271	269	264	258
Mean*.....	252	252	253	252	253	255	257	260	264	269	273	274	270	263	258

AUGUST, 1905.

29000 γ PLUS TABULAR QUANTITIES.

1	258	256	256	255	255	257	257	262	(275)	289	297	299	297	287	284
2	244	256	250	224	224	234	222	233	222	214	218	226	219	221	219
3	241	245	240	237	245	237	247	245	246	244	248	250	248	233	231
4*	239	246	250	249	242	238	240	244	253	262	267	270	266	257	249
5	(246)	(248)	(251)	(252)	(253)	(255)	(257)	(259)	260	262	262	270	264	251	240
6	248	248	251	250	246	247	245	249	254	263	270	273	265	253	238
7	251	248	247	240	242	240	249	268	263	267	266	268	261	255	243
8	235	241	243	234	235	238	236	231	224	222	224	224	219	220	225
9*	245	244	244	243	243	244	243	244	248	252	252	257	250	248	249
10*	252	253	251	253	254	254	250	253	265	278	285	286	286	271	263
11	252	258	249	250	247	245	237	236	244	254	253	249	249	233	233
12	254	256	255	256	258	258	258	268	267	262	264	250	242	236	232
13*	257	252	251	249	248	248	246	253	261	269	269	260	258	262	255
14	247	242	235	233	229	224	226	221	224	229	233	242	248	246	240
15*	241	240	238	238	239	238	229	226	229	237	244	247	247	242	239
16*	241	246	240	244	236	234	227	229	240	253	254	252	246	241	236
17	242	241	242	240	239	238	229	224	227	231	231	230	229	230	234
18*	249	249	247	247	246	246	240	235	239	241	245	252	252	251	242
19	252	250	248	246	246	246	243	246	255	267	266	267	264	255	245
20	240	238	252	247	245	242	239	244	256	265	269	265	263	255	251
21	252	247	247	247	245	245	243	243	246	252	256	256	252	242	239
22*	255	249	245	247	245	248	250	252	250	252	254	261	257	247	246
23	253	255	257	261	257	259	253	254	258	265	263	252	244	238	232
24*	242	244	247	246	244	244	244	249	259	266	266	261	252	243	232
25	246	244	243	260	249	247	237	226	232	230	234	234	232	244	245
26	248	246	242	242	239	239	236	235	241	243	250	245	245	243	244
27	244	246	247	246	246	245	238	235	241	241	237	243	245	248	241
28	255	250	245	249	250	240	250	257	262	262	249	243	245	237	232
29	239	241	250	252	245	243	240	230	227	227	225	234	241	241	240
30	226	230	235	237	228	228	219	215	216	215	219	225	226	221	222
31*	238	243	235	235	232	230	226	223	233	243	246	249	253	250	240
Mean.....	246	247	246	245	244	243	240	242	246	250	252	253	250	245	241
Mean*.....	246	247	245	245	243	242	240	241	248	255	258	260	257	251	245

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

JULY, 1905.

29000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
256	251	252	252	259	256	257	256	254	262	10	47	289	11	00	250	39	1
255	249	248	249	249	249	250	251	249	256	12	00	266	19	50	248	18	2
268	261	257	257	260	262	261	260	259	263	11	51	288	0	20	249	39	3
274	265	263	264	261	251	248	250	254	267	13	48	296	21	55	248	48	4
258	254	272	278	276	267	233	199	222	261	12	23	288	22	42	190	98	5
233	228	222	225	225	229	225	231	231	242	8	46	263	19	42	218	45	6
252	239	247	247	241	238	242	245	246	246	14	45	263	16	55	234	29	7
254	245	237	238	237	237	251	250	237	249	12	58	263	20	32	233	30	8
243	239	240	245	242	243	241	248	245	246	7	30	256	17	00	239	17	9
248	237	237	241	245	242	245	245	244	251	11	00	271	17	10	235	36	10
257	239	241	243	245	248	248	247	245	251	11	06	268	16	56	239	29	11
245	242	245	254	252	251	252	250	250	253	10	14	274	1	00	241	33	12
245	236	241	247	246	248	252	250	250	251	6	19	267	17	12	233	34	13
237	239	241	243	245	246	246	246	248	247	10	49	258	16	44	236	22	14
251	246	246	250	252	253	256	259	257	253	10	55	271	4	00	243	28	15
244	249	253	256	259	259	262	258	259	261	11	00	287	16	00	244	43	16
250	254	254	255	256	256	258	256	260	261	11	19	280	16	07	249	31	17
280	257	256	260	260	260	260	260	263	270	12	37	314	17	45	255	59	18
246	253	251	254	258	260	257	258	258	257	11	46	271	16	00	246	25	19
259	256	257	258	256	257	253	256	253	262	11	05	282	22	00	253	29	20
242	246	253	253	253	256	257	258	257	256	12	22	273	16	22	241	32	21
250	242	239	247	251	250	246	249	253	261	12	54	299	17	44	238	61	22
272	280	262	260	291	283	280	282	262	278	12	06	297	1	00	255	42	23
219	224	221	229	224	227	231	238	237	245	2	50	289	17	36	218	71	24
246	245	248	247	246	249	250	247	247	252	11	23	277	1	00	238	39	25
252	254	258	257	261	264	258	260	260	255	11	11	267	14	39	247	20	26
253	245	248	245	241	228	225	230	224	257	11	09	289	21	40	221	68	27
(246)	246	243	245	246	247	248	246	246	246	9	06	259	0	30	222	37	28
255	250	244	246	250	250	249	249	249	258	12	00	280	18	05	243	37	29
257	246	244	245	247	247	248	249	251	255	13	08	270	18	00	244	26	30
256	251	253	256	256	256	255	257	257	256	9	26	269	17	31	250	19	31
252	247	248	250	251	251	250	250	249	256							38	
251	248	248	250	252	252	253	254	252	257							30	

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29000 γ PLUS TABULAR QUANTITIES.

275	(272)	270	274	279	292	292	285	264	274	21	37	302	4	00	255	47	1
209	212	220	219	224	224	223	242	248	227	2	25	277	16	36	207	70	2
232	242	242	239	252	238	254	249	240	243	22	00	254	15	42	230	24	3
239	235	237	238	238	242	247	243	245	247	11	40	272	17	53	235	37	4
235	238	242	244	245	254	249	248	248	251	11	56	270	16	35	234	36	5
238	246	248	245	236	238	241	248	264	250	12	14	273	19	55	234	39	6
242	244	241	237	237	232	230	229	233	247	8	20	269	22	10	229	40	7
227	232	235	241	242	243	242	242	243	233	6	27	243	13	34	218	25	8
246	244	245	247	249	249	250	252	252	248	12	06	257	0	00	243	14	9
258	253	251	254	252	252	252	254	250	260	11	08	286	7	00	250	36	10
233	234	248	253	253	253	256	254	255	247	2	00	258	15	37	231	27	11
234	238	248	253	257	259	263	261	260	251	8	06	269	15	33	221	48	12
245	238	238	240	243	246	249	248	247	251	9	51	273	18	10	237	36	13
235	233	240	240	243	239	240	240	240	236	0	32	251	8	12	220	31	14
232	231	235	239	239	240	242	242	241	238	12	23	248	8	00	226	22	15
(236)	233	237	238	241	240	242	241	241	240	10	35	256	7	20	220	36	16
238	241	246	250	249	249	249	249	249	239	19	00	250	7	35	221	29	17
241	244	247	249	248	244	244	246	253	246	12	12	253	8	00	235	18	18
241	232	234	238	248	244	244	231	235	248	11	27	269	17	23	227	42	19
253	242	242	244	246	245	245	250	251	250	11	00	269	0	00	235	34	20
241	242	245	247	248	...	...	244	246	...	12	00	256	15	00	239	17	21
245	244	248	249	254	256	254	253	252	251	20	20	259	16	20	244	15	22
234	241	245	244	240	243	237	241	247	249	10	23	266	15	20	230	36	23
232	237	244	249	249	250	248	247	248	248	10	37	267	15	45	232	35	24
240	237	242	242	242	243	242	247	245	241	4	00	260	8	00	226	34	25
247	250	254	257	261	268	268	268	250	248	23	00	268	8	00	235	33	26
241	242	247	250	250	250	250	249	249	245	0	02	250	7	42	234	16	27
217	229	225	227	225	233	232	242	240	242	9	37	264	16	15	215	49	28
233	231	223	219	230	235	238	249	236	236	3	46	257	18	21	204	53	29
226	218	225	216	225	220	229	240	239	225	23	00	240	17	24	205	35	30
235	237	234	233	232	232	248	246	242	238	12	36	254	7	34	221	33	31
238	238	241	242	244	245	247	248	247	245							34	
243	240	242	244	244	245	248	247	247	247							28	

NOTE.—Values in parentheses were interpolated.

SEPTEMBER, 1905.

29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	γ 243	γ 242	γ 244	γ 244	γ 243	γ 242	γ 244	γ 249	γ 249	γ 267	γ 273	γ 269	γ 260	γ 253	γ 248
2	241	240	241	241	241	240	238	237	242	246	250	252	254	245	245
3	246	244	251	268	269	271	253	238	224	234	228	229	218	216	209
4	224	227	234	237	223	224	223	224	222	233	232	234	232	230	221
5	213	217	229	224	219	229	225	225	225	227	217	222	228	238	243
6	229	229	231	231	230	233	235	236	238	241	243	242	241	241	240
7*	238	239	239	237	237	236	237	240	240	243	242	244	239	234	237
8*	241	239	240	239	245	248	241	242	248	253	254	255	248	243	244
9*	240	238	238	246	244	245	247	247	258	268	270	275	272	270	263
10	237	234	234	235	234	233	226	226	223	224	234	235	229	230	231
11	231	230	229	230	228	227	222	218	218	224	228	232	236	235	235
12	232	231	231	230	227	226	218	215	211	212	215	219	221	222	219
13*	226	226	225	225	224	222	215	213	219	225	231	231	230	226	226
14*	233	233	232	232	230	225	221	217	217	223	230	234	245	242	239
15*	242	239	242	240	239	234	227	221	223	229	240	238	243	240	236
16*	242	242	240	241	237	234	225	224	226	234	238	238	240	236	237
17	246	247	246	244	242	236	224	217	219	228	236	241	242	239	240
18	253	248	249	249	248	244	244	250	256	257	254	241	240	244	239
19	204	202	210	201	213	210	210	216	221	224	222	210	204	203	194
20	216	215	218	222	224	227	226	224	226	228	232	233	231	225	223
21	222	225	226	227	230	229	225	227	225	225	227	227	225	226	226
22*	235	240	241	242	241	239	238	233	236	238	250	245	246	240	242
23*	239	239	240	240	240	238	231	224	222	225	226	229	230	232	232
24*	241	242	240	240	238	240	235	232	231	229	227	229	232	234	232
25	246	244	244	244	243	242	241	243	249	258	270	272	264	249	225
26	240	234	226	243	244	235	234	236	240	237	232	228	230	227	223
27	†...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean.....	235	234	235	237	236	235	231	230	231	236	238	239	238	235	233
Mean*....	238	238	239	238	236	236	232	229	232	237	241	242	242	240	239

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29000 γ PLUS TABULAR QUANTITIES.

1	†...
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12*	240	242	239	241	244	241	241	244	253	262	256	254	251	242	236
13	244	244	246	247	255	251	245	238	230	222	224	228	232	228	227
14	225	235	238	242	243	244	245	245	254	256	260	254	253	249	245
15*	244	243	243	244	243	242	247	250	252	258	264	266	267	263	255
16	249	250	250	249	251	249	248	250	259	261	259	260	257	251	237
17*	233	240	237	239	239	239	242	244	249	250	250	243	236	220	216
18*	236	239	239	241	251	245	242	231	238	243	243	243	243	239	237
19*	239	241	242	243	245	245	247	244	240	242	244	240	235	229	231
20*	244	244	246	254	256	256	253	249	251	254	255	257	258	252	253
21*	240	240	243	243	242	244	250	251	250	253	253	242	231	227	221
22*	235	233	234	237	236	238	241	241	241	242	244	244	244	242	238
23	237	236	240	239	237	239	243	242	242	(247)	251	247	245	244	(242)
24*	250	247	247	250	255	253	260	259	258	262	265	264	261	252	(250)
25	248	248	249	252	252	252	256	260	260	260	263	260	256	239	227
26	232	247	247	245	245	248	249	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	248	248	251	251	253	255	259	260	254	238	227	255	212	210	211
29	210	212	212	216	220	219	219	224	230	231	232	233	235	229	227
30	227	228	230	230	230	229	232	230	235	233	230	230	230	230	231
31*	233	233	233	233	232	233	233	232	228	223	225	224	224	222	225
Mean.....	238	239	240	242	244	243	245	244	246	246	247	245	243	237	234
Mean*....	239	240	240	242	244	244	246	244	246	249	250	248	245	239	236

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

† Not in good adjustment from September 27 to October 11 and on October 26 and 27.

SEPTEMBER, 1905.

29000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
243	243	246	247	249	247	244	250	248	249	12	41	276	22	46	239	37	1
245	(246)	247	247	246	248	248	248	250	245	12	31	255	7	30	236	19	2
205	213	217	217	219	222	221	221	226	232	5	55	273	16	58	205	68	3
234	227	226	220	213	211	228	214	214	225	10	37	237	21	22	207	30	4
237	231	221	221	223	224	226	226	227	226	14	43	243	0	22	211	32	5
238	237	239	243	242	245	241	240	239	238	21	00	245	0	06	227	18	6
239	239	240	244	245	245	244	242	241	240	21	00	245	14	00	234	11	7
249	(249)	251	248	247	243	240	244	242	246	11	12	255	22	17	239	16	8
250	240	246	247	243	237	237	237	238	250	12	40	277	2	15	237	40	9
229	226	226	226	231	233	235	235	234	231	11	32	237	9	20	222	15	10
234	231	233	238	237	236	237	235	233	231	19	00	238	7	53	217	21	11
221	224	229	230	230	228	228	226	226	224	1	00	232	9	22	210	22	12
226	227	228	229	230	230	230	231	231	226	23	39	232	7	19	213	19	13
234	233	238	239	239	240	240	241	241	233	12	45	246	8	30	215	31	14
234	238	237	238	238	240	242	241	241	237	13	00	243	8	35	219	24	15
238	242	243	244	243	244	243	245	245	238	23	00	245	7	20	224	21	16
242	245	244	244	243	245	246	251	247	240	22	18	256	8	00	217	39	17
244	247	238	221	206	213	202	200	195	237	9	36	263	22	20	193	70	18
195	199	203	209	203	199	195	196	200	206	10	00	224	15	40	190	34	19
224	226	219	230	213	217	231	222	216	224	11	31	235	20	07	212	23	20
229	228	233	229	223	229	232	233	234	228	15	19	237	0	00	216	21	21
243	244	240	247	244	238	241	238	237	241	11	00	250	8	00	233	17	22
235	239	243	243	244	243	241	241	239	236	20	48	244	8	46	222	22	23
235	238	239	245	244	243	242	241	248	237	2	26	245	11	00	227	18	24
217	231	238	241	244	244	241	241	245	245	12	03	274	15	54	216	58	25
228	228	222	234	229	253	237	246	237	234	21	00	253	18	00	222	31	26
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
233	234	234	235	233	234	234	234	234	234							29	
238	239	240	242	242	240	240	240	240	238							22	

OCTOBER, 1905.

29000 γ PLUS TABULAR QUANTITIES.

...	1
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...	11
234	243	246	246	245	242	234	244	245	244	10	15	263	15	31	232	31	12
225	229	227	235	233	235	237	229	230	235	4	29	257	10	00	222	35	13
241	243	239	239	238	238	239	240	242	244	10	38	262	0	36	224	38	14
250	249	247	248	248	249	249	248	248	251	12	47	269	0	08	242	27	15
237	240	241	243	235	236	234	229	228	246	9	54	262	24	00	228	34	16
211	216	221	216	219	230	233	235	234	233	11	32	253	16	03	211	42	17
238	238	237	239	239	239	238	239	239	240	5	22	252	8	00	231	21	18
232	235	239	240	239	240	239	241	242	240	6	48	250	14	22	229	21	19
(243)	235	238	240	240	239	239	238	239	247	4	44	258	17	11	234	24	20
222	225	230	232	233	233	232	237	232	238	10	03	254	15	17	217	37	21
235	234	234	238	237	237	235	234	234	238	11	19	245	2	00	233	12	22
238	242	246	247	250	251	252	251	251	244	21	38	252	0	00	234	18	23
(247)	245	247	248	251	251	252	251	249	253	10	52	266	16	13	240	26	24
224	231	231	230	224	226	232	231	231	243	11	10	267	20	28	221	46	25
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
...	...	...	...	246	253	250	249	249	...	...	...	...	...	...	...	...	27
208	205	205	208	211	213	210	209	210	228	7	54	261	18	00	205	56	28
226	225	224	226	227	226	226	225	223	224	12	40	236	0	35	209	27	29
229	234	232	232	233	232	230	231	231	230	9	00	235	0	28	223	12	30
226	224	225	228	228	227	229	231	230	228	7	00	233	14	05	222	11	31
231	233	234	235	235	236	236	236	235	239							29	
234	234	236	238	238	239	238	240	239	241							25	

NOTE.—Values in parentheses were interpolated.

NOVEMBER, 1905.

29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	232	234	235	237	237	237	241	241	239	233	229	224	225	226	228
2*	236	238	289	240	241	240	245	246	241	239	239	238	239	234	235
3*	246	243	244	242	243	243	244	252	254	257	259	259	255	245	242
4	232	233	237	240	242	244	249	248	251	251	258	250	238	223	207
5	188	189	197	207	213	220	232	241	245	251	249	243	231	207	205
6	222	225	224	237	239	242	244	243	241	233	234	234	233	225	221
7	232	235	238	231	239	241	247	252	252	251	251	249	242	232	221
8	225	227	229	231	232	233	236	235	236	237	237	234	232	229	228
9*	240	241	242	241	244	245	249	249	250	248	252	256	247	236	227
10	241	245	241	240	244	246	247	251	256	252	252	254	252	247	240
11*	248	248	248	249	249	250	253	256	259	264	269	273	268	261	250
12	239	241	242	250	248	271	265	239	229	224	193	167	155	147	131
13	185	194	182	182	194	203	218	235	234	201	202	202	197	198	195
14	211	208	212	211	214	214	223	226	227	228	224	216	212	209	216
15	190	192	198	204	210	216	221	227	229	233	277	256	246	191	137
16	129	144	117	130	146	129	148	155	160	193	199	193	171	156	131
17	187	192	194	194	208	219	214	205	206	204	196	179	177	173	182
18	200	199	201	205	209	208	209	204	199	188	190	197	198	201	200
19	211	212	212	214	217	220	222	214	203	197	196	193	197	197	198
20*	212	213	212	213	213	214	214	211	204	198	200	204	201	199	203
21	205	211	212	214	222	216	213	218	207	200	197	187	183	187	191
22	205	207	210	210	210	213	216	213	212	208	206	202	207	209	209
23	205	209	207	208	210	213	218	(224)	220	214	202	187	176	173	173
24	207	207	209	211	212	215	220	218	217	216	208	203	195	193	200
25*	215	215	219	218	217	220	232	230	(226)	(222)	(219)	217	219	215	213
26	215	215	213	214	215	219	228	228	227	223	228	225	220	206	194
27	205	214	211	214	213	217	229	237	235	229	218	219	207	213	213
28*	214	217	215	217	221	222	232	231	225	223	226	220	211	204	202
29*	217	217	219	221	222	227	234	236	232	230	229	223	218	216	217
30*	221	223	226	226	226	229	235	237	232	229	228	225	221	224	222
Mean.....	214	216	216	218	222	224	229	230	228	226	226	221	216	209	204
Mean*.....	228	229	230	230	231	233	238	239	236	234	235	234	230	226	224

DECEMBER, 1905.

29000 γ PLUS TABULAR QUANTITIES.

1	229	229	228	229	230	231	233	233	226	220	224	226	228	231	235
2	237	240	244	246	239	241	247	251	254	248	241	226	227	224	230
3	223	224	228	230	230	235	245	264	269	268	263	262	241	246	250
4	236	231	239	245	251	254	261	258	243	240	234	229	210	194	193
5	204	206	209	209	215	221	230	231	230	222	224	217	212	211	216
6*	221	222	222	223	226	229	236	237	232	225	223	217	210	205	207
7*	222	224	225	225	226	227	234	234	232	229	230	229	223	215	210
8*	224	224	226	227	227	228	235	242	247	244	243	239	237	233	229
9	229	231	230	230	230	233	238	241	239	236	233	231	227	223	223
10*	236	237	236	236	234	236	241	244	241	238	234	234	233	229	229
11	236	238	237	237	238	241	248	249	248	248	247	246	238	234	237
12	260	251	255	257	248	251	256	251	245	251	247	241	240	233	245
13	177	189	191	206	203	205	203	215	218	220	216	198	196	193	192
14	213	211	211	212	214	217	225	225	225	225	228	215	218	214	215
15*	217	219	222	223	222	223	230	233	228	226	214	213	216	223	222
16*	225	225	230	229	230	231	240	247	247	249	248	246	230	219	221
17	230	227	228	228	229	233	237	243	235	236	233	225	219	218	220
18*	229	229	231	234	235	233	241	244	243	244	244	245	237	230	231
19	230	230	231	234	237	236	244	249	248	244	239	236	230	228	214
20	227	223	226	236	229	228	230	233	225	208	201	200	194	195	187
21	209	213	217	220	222	225	228	231	230	228	223	220	213	210	217
22*	225	223	222	222	224	225	229	230	223	219	217	213	211	216	219
23	227	228	229	230	228	229	239	241	238	233	231	227	226	227	227
24	235	237	240	241	242	241	244	237	225	220	220	221	224	229	231
25	237	237	238	236	236	236	247	253	244	237	230	229	235	237	241
26*	233	230	230	233	233	232	237	238	235	235	234	236	231	223	225
27*	231	233	233	233	235	236	243	242	236	235	235	238	238	237	238
28	234	238	241	244	245	247	251	250	247	240	247	252	250	241	232
29	219	219	225	230	234	236	242	244	235	232	222	223	227	231	227
30	223	225	226	228	227	231	239	242	241	245	253	253	251	242	232
31	231	234	235	235	235	233	234	233	229	225	228	230	231	227	224
Mean.....	226	227	229	231	231	232	238	241	237	235	232	230	227	223	223
Mean*.....	226	227	228	228	229	230	237	239	236	234	232	231	227	223	223

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF HORIZONTAL INTENSITY.

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NOVEMBER, 1905.

29000 τ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
τ	τ	τ	τ	τ	τ	τ	τ	τ	τ	h	m	τ	h	m	τ	τ	
(229)	232	234	236	236	234	233	235	236	233	7	48	241	13	53	224	17	1
239	242	243	247	245	244	244	245	245	241	7	37	247	15	12	232	15	2
240	236	237	238	238	236	232	226	229	243	11	00	259	22	56	226	33	3
198	195	197	196	191	181	178	180	183	221	10	38	259	22	16	176	83	4
206	214	221	225	219	212	204	215	221	219	9	44	254	00	01	183	71	5
(224)	226	231	233	227	228	234	233	223	232	7	35	246	15	15	220	26	6
217	226	229	224	217	208	208	220	225	232	8	16	254	21	30	205	49	7
231	227	212	229	235	236	236	237	238	232	9	56	238	17	50	209	31	8
226	227	234	241	247	249	249	247	247	243	11	45	257	16	44	224	33	9
235	238	243	244	246	247	245	243	247	246	9	21	256	15	54	233	23	10
244	246	251	253	249	249	246	244	239	253	11	54	273	24	00	239	34	11
110	110	127	139	150	158	171	182	182	190	6	14	277	16	04	110	167	12
191	203	213	214	214	204	202	202	206	203	8	00	235	00	07	181	54	13
221	219	215	209	194	174	169	188	182	209	9	59	229	21	18	165	64	14
106	-3	58	79	91	136	124	130	127	170	11	00	277	16	49	-36	313	15
155	159	160	181	179	178	174	185	183	161	10	21	214	3	03	116	98	16
191	189	193	203	198	189	190	200	201	195	6	02	219	14	00	173	46	17
200	201	204	208	205	204	208	208	207	202	6	44	209	10	31	187	22	18
196	202	205	209	209	207	207	206	209	206	6	47	222	15	29	191	31	19
205	207	211	210	208	211	208	206	209	208	5	46	214	13	32	198	16	20
191	191	190	192	196	201	207	204	203	202	4	39	224	12	48	182	42	21
206	(205)	205	208	204	197	200	202	203	207	7	10	217	21	25	195	22	22
175	186	195	194	198	201	200	202	204	200	(8	00	224)	15	28	171	53	23
205	204	206	208	210	210	211	211	211	209	7	22	223	13	39	189	34	24
212	(211)	210	212	(213)	(213)	(213)	214	215	217	7	19	234	17	30	209	25	25
184	191	191	190	199	200	199	205	208	210	7	39	228	16	03	183	45	26
209	207	209	215	214	209	209	212	211	215	8	15	238	16	50	206	32	27
205	211	214	215	218	215	214	216	218	217	7	16	232	15	00	202	30	28
220	221	(221)	(222)	221	221	222	220	221	223	7	41	237	14	26	214	23	29
228	228	229	230	232	230	231	230	230	228	7	42	238	14	56	221	17	30
203	202	206	210	210	209	209	212	212	216							52	
225	226	228	230	231	230	229	228	229	231							24	

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237	234	231	233	236	235	234	232	235	231	16	00	237	10	09	219	18	1
229	214	215	212	222	221	222	223	223	232	9	05	255	18	22	211	44	2
244	241	236	234	226	222	235	230	235	241	9	30	271	21	21	222	49	3
193	191	198	203	211	209	208	203	205	222	5	24	268	16	46	189	79	4
217	217	217	219	221	219	220	222	222	218	8	21	237	1	06	203	34	5
210	208	217	215	217	217	219	220	222	220	8	00	237	14	19	204	33	6
207	213	220	223	226	225	226	224	223	224	7	47	235	16	00	207	28	7
224	214	218	220	219	221	225	226	227	229	8	48	247	17	12	214	33	8
221	221	225	230	233	232	231	232	234	231	8	17	243	16	45	221	22	9
230	229	230	232	235	236	235	236	235	235	8	16	244	16	27	228	16	10
239	236	234	234	235	234	238	268	261	242	23	16	273	21	00	234	39	11
244	228	207	201	195	200	189	207	188	233	7	33	260	22	08	188	72	12
183	182	184	195	204	203	202	203	206	199	9	38	223	1	41	177	46	13
214	208	207	208	211	212	212	213	215	215	11	04	228	0	01	206	22	14
220	220	224	225	219	219	220	221	222	222	8	03	233	11	36	210	23	15
224	228	231	230	232	231	232	229	227	233	10	43	250	14	25	219	31	16
222	226	227	227	225	224	227	226	225	228	7	52	243	14	19	217	26	17
231	224	223	225	226	229	224	229	228	233	11	37	247	18	00	223	24	18
217	221	224	223	218	218	222	234	228	231	8	26	251	15	15	212	39	19
199	209	196	206	205	211	210	211	207	212	4	04	237	15	14	185	52	20
222	221	221	224	225	226	226	227	225	222	8	09	231	0	00	207	24	21
222	226	227	229	230	228	228	226	227	223	7	51	230	13	00	211	19	22
229	228	228	230	233	233	233	234	234	231	8	00	241	13	30	225	16	23
231	233	232	232	233	231	235	235	236	233	7	12	245	10	35	219	26	24
238	231	228	228	230	232	228	228	227	235	8	08	253	18	38	225	28	25
226	228	228	228	231	228	231	232	232	231	7	50	239	14	00	223	16	26
236	232	233	232	231	231	233	232	233	235	7	30	245	20	35	231	14	27
222	210	201	202	211	206	210	211	214	231	13	01	257	18	32	198	59	28
222	217	216	218	217	215	217	216	223	225	8	06	245	0	00	214	31	29
218	214	219	220	221	220	221	224	228	231	11	10	253	17	00	214	39	30
226	229	229	229	226	224	222	225	228	229	7	40	235	22	00	222	13	31
222	220	220	222	223	222	223	225	225	228							33	
223	222	225	226	227	226	227	228	228	228							24	

NOTE.—Values in parentheses were interpolated.

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29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2*	232	233	234	233	234	234	238	239	231	(226)	(225)	(222)	(221)	(223)	(227)
3	238	237	237	238	237	237	237	238	231	237	235	226	217	218	214
4*	236	234	232	234	235	235	241	245	240	235	225	222	215	212	215
5	227	230	228	230	232	231	237	240	236	236	235	229	224	226	221
6	224	226	225	228	231	231	238	245	241	237	234	231	232	224	225
7	217	221	223	226	227	229	234	235	229	219	215	209	203	204	214
8	224	224	227	228	229	227	235	239	238	235	234	226	217	216	215
9	223	227	227	226	225	224	233	238	228	230	238	238	228	224	227
10*	227	227	229	231	233	231	240	248	244	231	227	229	229	230	231
	227	228	228	233	232	232	239	239	232	227	223	219	217	216	218
11	229	231	231	230	232	231	236	241	236	231	231	225	221	219	217
12	230	234	235	234	236	230	235	236	230	221	214	216	223	228	234
13	234	229	235	229	229	229	235	240	225	209	198	186	191	197	203
14	229	234	234	233	234	230	235	235	228	221	205	192	201	210	221
15	225	231	232	233	231	230	236	239	235	227	215	206	206	214	224
16*	229	226	227	230	231	230	233	235	236	233	227	227	225	232	238
17*	230	231	231	231	231	231	235	236	231	227	228	230	229	230	232
18	230	231	231	233	235	234	236	234	227	221	233	235	239	242	241
19	227	229	241	238	240	232	229	229	222	211	209	200	191	198	202
20	214	211	211	213	212	212	218	221	219	217	219	222	219	218	222
21	220	221	220	220	222	221	228	230	230	232	232	206	188	195	202
22*	227	229	230	230	233	237	243	243	239	238	239	231	225	223	226
23*	234	235	237	239	239	241	245	241	228	221	223	215	212	216	225
24	237	238	238	241	240	241	248	252	253	246	252	251	243	237	236
25*	236	238	239	238	239	238	241	237	228	231	232	234	234	237	236
26	235	235	236	238	239	242	248	249	238	231	232	234	240	242	245
27	216	213	219	226	229	231	234	232	227	223	229	230	225	219	226
28	221	223	221	230	229	230	235	236	226	212	207	214	219	224	231
29*	231	233	237	238	237	241	245	243	236	228	229	233	236	234	233
30	237	238	239	241	242	244	248	250	242	228	223	235	250	255	255
31	230	226	233	234	237	237	239	234	232	225	218	205	205	192	195
Mean....	228	229	231	232	233	232	237	239	233	227	225	222	220	221	224
Mean*....	230	231	232	233	234	235	239	239	233	230	229	225	222	224	226

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29000 γ PLUS TABULAR QUANTITIES.

1	205	205	204	210	212	216	218	232	226	224	211	198	209	221	210
2*	208	216	215	218	221	228	236	239	231	217	202	203	201	210	215
3	218	226	225	226	229	227	233	233	228	219	208	200	200	203	204
4*	215	217	222	223	229	235	242	245	246	242	241	238	231	225	227
5	223	222	227	227	228	231	240	243	238	238	231	(231)	(229)	(227)	(225)
6	210	227	226	224	225	228	235	250	251	247	234	227	227	219	219
7	230	225	225	225	227	226	242	243	243	240	240	228	228	229	231
8*	226	226	223	228	231	234	240	241	238	239	238	231	237	241	237
9	234	230	230	230	230	240	243	250	249	247	251	250	255	252	242
10*	224	230	228	232	232	234	242	249	249	244	237	231	230	217	226
11*	228	229	231	233	233	233	244	255	262	261	258	257	251	244	238
12*	231	233	233	235	238	237	243	247	247	243	240	238	236	240	239
13*	236	235	235	235	233	234	240	242	244	241	231	224	221	227	232
14	234	234	235	236	238	237	241	241	242	244	241	254	251	255	253
15	233	232	232	240	240	244	240	250	250	...	...	...	...	...	...
16	192	196	199	200	205	206	217	222	225	221	209	204	202	199	198
17*	213	213	214	218	218	220	227	233	233	228	226	228	227	225	224
18	221	221	223	225	226	228	232	236	238	236	233	235	235	230	228
19	199	196	201	209	221	226	227	235	241	217	197	172	151	148	147
20	199	204	206	208	207	209	216	220	218	213	210	208	209	207	206
21*	212	210	214	213	215	222	229	231	234	231	229	232	230	226	223
22*	219	220	222	222	222	224	228	233	236	238	242	238	231	226	223
23	221	223	230	222	227	231	237	241	237	235	230	227	217	215	214
24	236	233	233	232	239	228	248	239	222	220	207	190	178	173	152
25	176	184	178	182	187	188	196	201	208	210	209	207	220	192	194
26	230	215	199	195	188	190	195	204	207	205	210	212	209	190	167
27	201	202	204	206	207	207	211	217	217	213	207	206	209	208	208
28	208	207	209	213	213	217	228	230	224	203	184	170	164	160	148
Mean....	217	218	218	220	222	224	231	235	235	230	224	220	218	215	212
Mean*....	221	223	224	226	227	230	237	242	242	238	234	232	230	228	228

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF HORIZONTAL INTENSITY.

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29000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
<i>r</i> (229)	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	
219	231	233	234	234	232	230	230	235	231	7	50	239	(13 00)	(221)	18	1	
222	233	230	228	230	226	226	234	236	231	7	37	240	15	00	214	26	2
217	229	229	230	232	230	231	230	228	230	8	04	246	14	18	211	35	3
224	216	218	220	225	226	226	225	224	227	7	53	240	17	08	215	25	4
	228	232	226	216	207	213	212	218	227	8	32	243	21	14	204	39	5
222	224	225	225	226	227	226	226	226	222	7	38	235	13	51	203	32	6
216	219	218	215	216	209	214	217	220	223	8	20	240	16	00	216	24	7
224	223	222	226	226	228	226	226	225	228	7	53	239	0	08	220	19	8
229	223	217	223	224	223	224	226	226	229	7	55	248	17	29	213	35	9
222	222	222	225	227	228	227	229	228	227	7	23	240	14	29	216	24	10
224	224	221	216	215	220	223	229	230	227	7	55	241	19	23	214	27	11
235	229	226	228	228	225	224	232	233	229	7	38	237	11	56	214	23	12
210	229	231	234	233	230	228	229	227	222	19	43	241	12	07	185	56	13
231	232	229	228	228	225	225	218	219	224	7	50	236	12	15	191	45	14
226	233	224	221	223	225	225	224	225	225	8	20	239	12	47	202	37	15
237	234	229	229	228	226	227	229	229	230	15	00	238	13	00	225	13	16
231	232	231	232	231	230	228	228	228	231	7	48	236	13	38	227	9	17
237	228	227	229	229	230	227	228	227	232	13	57	243	9	50	221	22	18
204	211	214	216	217	217	214	214	214	217	5	24	242	13	12	189	53	19
221	223	224	224	225	224	224	223	221	219	20	00	225	2	00	211	14	20
210	218	222	223	223	225	225	226	226	219	10	29	235	13	05	188	47	21
228	226	232	234	233	231	229	231	231	232	7	24	245	13	42	222	23	22
236	236	232	233	233	234	235	234	236	232	7	30	246	12	34	211	35	23
232	228	231	231	232	232	234	234	235	239	8	40	253	17	00	228	25	24
234	234	234	234	232	233	234	234	234	235	7	05	241	9	00	228	13	25
244	239	233	226	226	229	234	228	223	236	7	54	250	23	51	220	30	26
234	231	227	223	221	219	222	214	219	225	7	26	235	1	25	212	23	27
230	228	222	229	228	227	228	228	229	225	7	42	237	10	47	207	30	28
232	234	236	237	238	237	236	235	236	236	7	25	246	10	15	226	20	29
252	250	245	244	243	241	239	235	233	242	14	25	256	11	13	222	34	30
201	201	177	176	192	202	206	204	199	212	7	05	240	19	00	176	64	31
226	227	226	226	226	226	226	226	226	228							30	
228	229	229	230	230	230	229	230	231	230							22	

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29000 γ PLUS TABULAR QUANTITIES.

206	212	209	214	215	215	210	203	204	212	7	55	233	12	00	198	35	1
211	216	219	221	223	223	220	220	219	218	8	23	240	13	13	200	40	2
214	217	215	217	216	216	212	214	214	217	7	55	233	14	56	200	33	3
229	227	226	226	226	226	224	225	220	229	9	00	246	0	00	214	32	4
(224)	223	229	221	209	209	215	191	197	224	7	42	244	23	27	187	57	5
215	214	221	220	221	217	219	226	221	226	7	56	251	0	03	197	54	6
228	224	215	217	224	224	223	223	227	229	8	34	245	18	28	211	34	7
234	230	226	231	232	230	228	225	231	232	8	35	243	18	28	220	23	8
230	218	216	218	223	228	226	226	225	235	11	53	257	18	00	216	41	9
227	225	222	225	223	224	227	228	227	231	8	23	250	13	53	216	34	10
237	232	230	230	231	231	229	228	227	239	9	41	263	24	00	227	36	11
232	226	226	226	226	228	229	229	231	235	8	32	250	18	52	225	25	12
231	228	231	231	231	231	229	229	231	233	8	34	244	13	03	221	23	13
248	249	241	230	228	230	232	228	234	240	12	14	255	19	49	227	28	14
...	181	162	161	166	185	187	188	190	...	9	00	250	19	30	157	93	15
196	197	200	200	200	208	205	210	210	205	9	00	225	0	02	190	35	16
219	219	217	223	223	224	221	218	217	222	8	12	234	0	00	210	24	17
225	223	222	224	213	196	176	174	188	220	9	12	238	22	32	171	67	18
151	154	165	176	182	187	192	195	198	191	8	56	242	14	21	142	100	19
209	210	210	213	212	214	213	214	212	210	8	20	220	0	55	197	23	20
219	217	212	213	216	220	217	216	217	221	8	43	235	18	34	209	26	21
219	218	215	212	213	214	214	218	221	224	11	02	242	19	00	212	30	22
215	219	222	224	230	229	230	231	233	227	7	37	243	15	19	212	31	23
137	113	109	125	121	155	127	132	155	184	7	07	249	17	45	95	154	24
178	159	160	169	163	161	159	178	182	185	12	28	223	21	32	153	70	25
171	162	178	184	190	165	196	195	197	194	1	04	231	17	14	162	69	26
207	202	207	184	182	188	200	201	203	204	9	02	218	20	23	174	44	27
171	181	188	190	189	194	191	185	192	194	7	26	232	14	51	146	86	28
210	208	209	210	210	211	210	210	212	218							48	
226	224	222	224	224	225	224	224	224	228							29	

NOTE.—Values in parentheses were interpolated.

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29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2*	204	200	200	204	209	209	215	217	215	208	206	196	195	188	182
3	207	209	214	213	215	215	222	226	226	226	225	224	218	210	205
4	212	214	215	216	219	221	226	225	226	225	223	220	214	210	212
5	200	208	209	216	216	214	221	227	225	220	221	216	213	208	202
6	200	198	208	213	212	212	219	221	219	217	217	215	219	217	210
7	217	214	223	214	216	219	218	224	220	224	228	228	230	230	218
8	212	199	200	204	209	212	221	225	229	225	226	232	210	202	194
9	217	215	213	216	218	219	223	226	231	230	227	233	226	221	215
10*	209	208	211	212	215	218	217	219	214	216	212	211	214	212	209
11*	212	211	214	216	214	216	218	216	214	216	221	223	217	215	210
12	218	218	217	219	219	215	220	221	218	216	219	217	215	210	209
13	218	221	219	220	223	222	223	224	224	227	231	233	240	243	243
14	210	212	214	219	221	226	233	233	233	227	223	214	233	231	223
15	193	202	209	210	216	212	214	218	224	224	226	228	232	222	200
16	212	213	212	213	214	216	222	224	223	217	218	218	217	217	214
17	213	214	217	219	221	224	229	233	236	231	238	238	230	222	214
18	200	204	211	216	223	228	238	245	247	247	246	244	240	226	212
19	220	216	210	211	218	220	226	221	234	241	245	247	239	227	217
20*	209	208	209	209	211	215	227	228	229	237	238	236	232	219	207
21*	215	211	210	213	216	219	225	234	239	242	244	242	239	229	216
22*	211	209	209	213	215	219	229	236	242	244	253	255	251	243	233
23*	214	216	215	217	219	216	220	226	235	239	244	244	239	231	223
24	212	213	214	217	216	214	216	222	230	241	253	256	254	244	233
25	212	210	214	218	219	220	224	228	232	240	248	246	239	236	243
26	198	193	190	202	201	197	212	205	202	199	198	186	175	177	174
27	190	192	195	197	199	207	217	216	214	219	224	234	231	201	232
28*	215	216	214	212	213	214	215	221	226	229	233	235	238	234	228
29*	208	208	210	213	215	215	216	218	224	234	246	254	249	242	234
30*	207	206	208	204	209	215	216	219	226	232	235	236	230	227	215
31	203	207	209	211	211	213	216	222	227	229	232	229	235	225	218
Mean....	202	203	207	207	208	210	214	215	212	212	214	212	208	208	203
Mean*....	209	209	210	212	215	216	220	224	228	232	237	238	227	221	214

APRIL, 1906.

29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	210	209	209	211	213	211	218	225	229	228	227	225	225	224	220
2	204	204	207	209	211	214	219	224	227	234	242	241	249	250	244
3	209	208	210	210	212	213	214	220	235	241	240	243	236	231	224
4	221	224	224	225	228	225	220	223	224	221	222	218	213	204	211
5*	219	219	217	221	222	224	224	223	220	224	229	235	235	233	230
6*	221	221	221	221	219	220	220	226	234	237	236	233	235	231	230
7	220	220	221	221	221	220	221	223	233	246	250	244	239	235	232
8	235	233	233	234	236	235	237	238	239	252	267	282	277	266	251
9	231	228	231	216	216	223	217	208	209	214	209	214	225	237	235
10	221	213	209	212	216	217	209	217	221	222	226	234	247	241	234
11	190	195	187	193	192	195	195	198	207	211	207	213	219	220	216
12	212	211	210	210	208	206	206	201	199	198	197	205	216	225	223
13	218	218	218	219	221	221	222	224	230	235	234	245	248	241	226
14*	212	215	218	219	220	224	226	227	233	236	237	232	223	226	224
15*	220	222	221	223	228	229	233	235	241	246	249	250	251	248	240
16*	221	222	223	224	224	225	223	225	232	233	233	234	237	237	234
17	221	219	220	223	224	228	234	237	243	245	245	246	254	251	242
18	226	225	226	227	226	226	225	226	223	229	230	235	244	246	242
19*	221	225	221	224	223	221	214	205	211	218	228	231	232	229	224
20*	220	222	222	225	226	224	226	231	238	245	249	246	245	245	239
21*	220	221	219	221	225	223	222	225	237	248	251	246	244	234	221
22	217	206	208	204	205	208	218	223	235	252	262	257	249	234	232
23	199	197	202	204	204	204	198	203	211	219	223	240	236	233	226
24	188	190	190	192	193	190	192	196	197	205	209	206	200	202	202
25	189	204	203	203	204	203	202	204	203	209	212	212	210	211	207
26	202	201	203	205	207	206	200	204	214	227	232	233	235	229	225
27*	211	205	207	210	208	206	199	203	216	222	221	213	210	209	212
28	210	210	211	210	211	209	201	200	209	227	232	231	243	252	230
29	194	196	198	206	214	207	208	219	237	240	236	232	228	224	206
30	207	208	211	211	211	208	206	210	217	223	229	222	220	220	212
Mean....	213	213	213	214	216	216	215	217	223	230	232	233	234	232	227
Mean*....	218	218	218	220	221	221	220	222	229	234	236	234	234	232	227

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF HORIZONTAL INTENSITY.

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MARCH, 1906.

29000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
192	182	192	191	193	197	202	203	204	200	8	27	221	17	15	178	43	1
202	206	208	210	211	213	212	213	211	214	8	41	227	15	52	202	25	2
214	212	217	224	238	234	218	190	179	217	20	28	246	23	50	175	71	3
195	195	189	180	191	194	192	196	198	206	8	19	228	18	51	180	48	4
202	199	211	217	219	219	218	217	218	213	7	48	223	0	10	196	27	5
216	213	215	216	212	207	179	196	187	215	12	55	232	22	03	178	54	6
191	190	196	207	208	210	211	207	225	210	12	00	232	17	20	188	44	7
213	187	189	192	192	203	218	212	212	214	10	24	233	17	15	179	54	8
208	208	202	194	196	210	205	205	213	210	5	41	219	19	37	189	30	9
209	203	208	211	212	214	214	216	218	214	12	00	223	17	00	203	20	10
211	210	211	211	214	216	215	215	215	215	7	56	221	14	57	208	13	11
235	224	213	201	175	189	186	202	214	219	14	00	243	20	08	171	72	12
204	192	189	183	188	191	200	192	189	212	8	32	235	19	06	183	52	13
179	184	196	203	202	203	205	206	207	209	13	00	232	16	00	179	53	14
211	211	212	211	214	215	213	211	210	215	8	17	224	17	24	210	14	15
208	203	200	191	186	183	185	187	198	213	8	37	238	20	41	181	57	16
211	215	205	203	216	219	217	216	213	223	9	32	249	0	00	198	51	17
210	200	199	202	197	199	202	205	209	217	11	50	248	19	50	197	51	18
203	204	209	211	215	216	217	216	216	218	11	00	238	16	44	202	36	19
210	206	209	214	214	214	212	211	210	221	11	17	244	16	33	206	38	20
221	215	215	216	216	215	217	215	214	225	11	38	257	2	00	209	48	21
216	212	208	209	211	213	213	213	212	221	11	08	245	18	23	207	38	22
218	212	213	214	213	212	213	212	213	223	11	34	256	22	55	211	45	23
224	206	182	179	165	166	161	188	185	212	11	07	248	21	32	160	88	24
173	181	186	193	200	195	182	185	200	192	6	57	212	16	00	173	39	25
224	209	206	206	206	210	214	212	212	212	11	52	234	1	32	162	72	26
221	217	210	204	195	194	203	203	204	216	12	46	240	20	32	190	50	27
219	208	209	212	213	211	207	207	207	220	12	08	255	22	08	206	49	28
205	205	204	204	208	208	208	208	204	214	11	14	236	18	51	203	33	29
216	210	209	208	206	200	199	199	202	214	13	00	235	21	35	198	37	30
203	205	200	194	194	196	199	203	207	206	8	00	215	19	40	193	22	31
209	204	204	204	204	205	204	205	207	214							44	
213	209	209	211	212	212	211	211	211	218							35	

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29000 γ PLUS TABULAR QUANTITIES.

218	215	213	212	212	211	208	208	207	216	9	52	230	24	00	207	23	1
237	229	216	211	213	214	205	206	213	222	12	28	251	22	28	200	51	2
230	247	243	231	226	217	220	223	223	225	10	34	245	2	33	206	39	3
213	214	214	210	211	222	215	220	221	218	5	00	228	14	00	204	24	4
225	221	219	219	222	223	222	222	222	224	11	57	235	3	00	217	18	5
223	220	219	220	221	222	223	222	221	225	10	32	238	18	15	219	19	6
229	228	228	228	229	230	228	228	231	229	10	41	252	6	00	220	32	7
245	239	235	235	234	234	233	236	234	243	12	35	289	2	00	233	56	8
222	202	199	197	201	209	205	206	203	215	2	36	237	18	34	194	43	9
212	184	167	188	182	174	173	178	182	207	13	05	247	17	58	167	80	10
205	203	202	205	209	211	207	210	210	204	13	37	223	0	00	182	41	11
220	215	213	211	211	212	213	213	212	210	14	25	226	11	00	197	29	12
220	219	218	209	207	205	203	217	213	222	12	44	250	21	18	203	47	13
217	222	222	221	220	220	219	218	218	223	10	16	237	1	00	212	25	14
230	226	225	226	225	224	223	221	221	232	13	00	251	1	00	220	31	15
231	227	225	224	227	226	225	225	225	228	13	00	237	1	00	221	16	16
232	222	223	224	226	227	228	227	225	232	13	29	255	2	00	219	36	17
238	232	225	231	232	219	213	220	219	229	13	44	247	22	02	211	36	18
217	210	212	213	214	215	218	221	221	220	13	13	232	8	14	204	28	19
228	224	221	219	217	214	219	222	221	229	11	11	250	21	07	214	36	20
218	208	206	213	216	216	216	216	222	224	11	02	252	18	00	206	46	21
212	198	193	202	188	199	204	203	200	217	11	09	263	19	46	187	76	22
202	179	185	192	182	182	174	179	184	202	12	18	244	16	03	179	65	23
184	196	197	196	183	184	185	187	190	194	11	00	209	21	28	183	26	24
205	196	197	198	199	198	196	193	204	203	10	18	212	1	00	189	23	25
221	212	207	208	210	210	207	207	212	213	12	41	236	1	26	200	36	26
210	212	209	205	205	207	208	208	209	209	10	34	224	7	00	199	25	27
209	206	209	192	199	197	211	190	199	213	13	48	260	18	46	189	71	28
203	197	191	192	203	202	206	214	207	211	9	48	242	18	23	189	53	29
206	193	190	194	200	201	208	205	203	209	11	00	229	17	42	188	41	30
219	213	211	211	211	211	210	212	212	218							39	
222	218	217	217	218	218	218	218	219	223							27	

MAY, 1906.

29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2*	202	205	205	208	209	208	203	201	200	204	208	212	214	213	208
3*	206	207	207	210	211	212	210	210	220	223	224	224	222	217	206
4*	207	207	208	209	210	209	206	208	217	223	225	224	219	214	207
5*	210	210	211	211	213	215	213	220	228	230	231	229	222	216	208
6	211	211	211	212	213	214	218	224	227	225	221	220	218	214	215
7	214	212	214	209	210	209	209	224	231	223	219	224	221	230	228
8	215	216	218	217	218	219	217	221	225	227	224	218	216	214	214
9	223	223	225	223	221	226	222	229	242	249	249	245	239	238	238
10	211	204	204	208	208	211	210	211	217	208	211	210	213	212	204
11	207	207	209	209	211	209	208	205	205	207	217	219	226	227	225
12*	212	212	212	214	212	224	215	213	212	211	209	204	214	219	213
13	213	212	213	212	213	219	222	223	226	231	230	230	225	222	222
14	217	219	219	219	221	223	222	227	235	240	244	242	235	224	218
15	219	217	217	221	238	241	233	234	250	252	258	251	250	236	224
16	205	212	232	216	217	195	209	226	234	227	218	201	183	162	152
17	181	183	187	185	188	192	192	194	203	206	210	214	212	207	198
18	193	196	195	194	195	198	202	205	208	205	199	196	194	189	187
19	199	195	195	196	198	199	200	214	227	234	232	226	217	207	194
20	201	197	196	202	200	202	210	224	231	238	240	237	224	219	210
21	177	175	183	190	185	189	181	172	164	170	183	195	201	202	198
22	187	188	184	183	184	187	188	183	178	173	178	183	192	199	194
23	195	194	194	196	196	195	193	197	204	209	210	208	211	209	200
24*	203	200	200	199	199	199	196	197	199	201	208	215	219	214	209
25*	205	208	213	212	211	214	213	209	219	232	236	236	235	226	212
26	198	210	210	208	208	205	202	204	206	209	218	220	217	211	206
27	205	207	208	208	210	213	209	206	215	230	237	238	234	232	226
28	221	223	223	219	217	217	217	220	220	224	231	236	239	242	223
29*	206	205	216	203	199	201	200	199	203	218	224	220	214	205	196
30*	204	206	207	208	208	208	203	203	203	211	214	215	216	209	203
31	197	199	197	199	198	196	192	191	194	197	199	199	196	190	190
Mean.....	204	204	206	206	206	208	209	211	221	225	227	223	219	217	202
Mean*.....	205	208	208	209	209	210	208	209	214	218	221	221	218	213	208

JUNE, 1906.

29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	213	212	212	212	213	216	216	221	224	233	237	245	239	245	236
2	190	192	186	184	196	209	223	216	204	202	201	190	187	184	184
3	206	208	211	207	211	210	215	223	225	227	229	230	227	226	220
4	200	200	213	203	202	205	201	204	210	222	225	219	213	211	211
5*	208	207	208	206	204	204	205	209	218	224	224	222	220	213	209
6*	210	209	206	207	210	211	208	209	218	226	235	236	235	234	227
7	212	213	212	215	213	211	208	208	226	243	258	262	256	247	234
8	207	207	210	209	206	203	200	204	218	215	230	231	228	222	206
9	198	186	188	193	193	187	176	176	188	196	202	206	208	203	188
10	201	202	201	200	199	201	199	197	200	202	200	198	194	197	196
11	207	208	209	209	204	209	216	219	212	206	217	218	220	218	217
12	197	198	197	197	198	200	201	195	194	196	195	192	186	185	190
13	204	209	206	208	210	212	210	202	196	205	210	210	210	208	205
14	206	207	207	206	205	206	204	202	200	197	195	195	195	197	198
15*	207	207	207	204	204	209	211	215	221	227	221	226	231	236	222
16	198	195	192	201	207	211	210	201	201	211	220	225	226	224	213
17*	194	192	192	193	190	189	199	207	213	215	215	214	205	203	195
18	195	195	200	199	200	201	199	195	198	199	197	196	204	203	203
19*	206	207	206	206	207	208	208	209	209	217	219	222	220	218	213
20*	198	197	199	199	202	202	202	202	199	199	197	200	202	203	200
21*	201	201	201	201	204	206	202	199	206	211	218	222	216	216	212
22	210	211	211	215	217	216	210	205	210	218	226	234	234	232	224
23*	224	224	224	223	225	225	225	226	229	237	242	244	245	241	237
24	218	217	216	216	219	217	222	225	227	234	240	239	237	240	238
25	220	221	224	221	219	220	219	221	224	237	246	240	246	245	238
26	220	218	214	214	213	210	208	215	226	231	241	239	229	214	211
27*	221	220	219	219	219	220	219	219	224	229	233	230	226	221	214
28	222	220	220	220	215	215	213	217	227	232	235	238	238	239	228
29*	224	223	225	224	222	226	221	221	219	225	233	242	244	237	223
30	223	221	221	221	222	222	220	225	228	231	232	229	232	229	223
Mean.....	208	208	208	208	208	209	209	210	213	218	222	223	222	220	214
Mean*.....	209	209	209	208	209	210	210	212	216	221	224	226	224	222	215

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

MAY, 1906.

29000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
201	202	204	206	205	208	204	204	205	206	13	00	214	9	00	200	14	1
200	204	207	207	210	210	207	208	205	211	10	30	225	16	28	199	26	2
206	208	211	212	211	213	213	210	208	212	10	30	226	16	22	205	21	3
203	205	208	208	211	212	213	212	210	215	11	00	231	16	25	202	29	4
216	218	215	212	212	213	213	213	212	216	9	20	227	21	31	211	16	5
229	232	236	236	222	222	221	221	219	221	14	26	236	4	13	209	27	6
211	212	215	216	216	225	227	226	224	220	21	48	228	16	00	211	17	7
228	216	182	178	190	189	190	194	204	219	10	19	252	19	23	175	77	8
200	198	203	205	204	207	205	210	207	208	8	46	218	16	50	197	21	9
221	216	218	219	221	216	215	210	210	214	13	40	230	8	00	205	25	10
208	206	204	208	206	209	209	210	212	211	6	00	224	12	00	204	20	11
220	216	212	212	214	218	215	214	214	219	10	03	231	17	25	212	19	12
213	231	230	228	225	228	216	222	217	226	11	05	245	16	00	213	32	13
221	224	227	228	224	222	217	212	211	230	10	32	260	23	20	210	50	14
146	158	168	173	174	176	178	181	181	193	8	22	237	16	03	146	91	15
193	193	193	194	192	190	190	189	193	195	11	53	215	1	00	181	34	16
184	186	193	198	199	200	200	202	198	196	9	27	208	15	40	184	24	17
191	189	195	199	199	200	202	205	201	205	10	00	234	16	54	188	46	18
206	201	186	173	175	175	175	177	180	203	10	29	240	21	38	163	77	19
190	172	164	162	159	160	163	166	200	179	13	37	204	19	52	158	46	20
192	193	191	191	190	192	195	197	199	188	0	08	204	10	00	173	31	21
192	196	200	202	204	205	204	205	203	201	13	00	211	16	00	192	19	22
205	202	201	204	203	206	207	210	207	204	12	57	219	7	00	196	23	23
203	201	201	203	203	205	205	205	198	213	11	00	236	24	00	198	38	24
198	196	198	200	199	199	200	203	203	205	11	46	221	16	51	195	26	25
220	211	212	213	212	211	212	218	221	217	11	17	238	0	01	203	35	26
194	191	202	205	197	197	197	200	209	215	14	13	244	16	46	189	55	27
193	193	198	199	199	201	204	205	202	204	10	48	225	16	00	193	32	28
197	189	189	192	192	193	199	196	196	203	13	00	216	17	44	186	30	29
191	195	197	200	202	203	204	204	203	209	22	00	204	15	00	190	14	30
197	200	203	207	208	208	199	206	210	209	11	00	227	16	02	196	31	31
202	202	202	203	203	204	203	204	205	208							34	
204	203	204	205	206	207	207	207	205	210							23	

JUNE, 1906.

29000 γ PLUS TABULAR QUANTITIES.

227	242	221	236	210	193	186	189	194	220	11	40	248	21	32	184	64	1
176	179	187	184	191	188	193	196	199	193	7	21	228	17	20	166	62	2
206	200	191	190	202	196	190	209	190	210	10	13	231	18	02	190	41	3
210	208	209	206	204	203	206	205	205	208	10	46	228	0	01	191	37	4
206	206	208	206	208	209	217	214	211	211	10	00	224	5	00	204	20	5
216	211	209	208	211	212	210	213	214	216	11	28	236	3	00	206	30	6
218	208	209	209	208	200	196	214	200	220	11	43	263	21	53	190	73	7
191	183	180	186	189	182	179	188	199	203	11	49	232	17	17	176	56	8
182	186	193	195	199	198	198	197	199	193	12	22	213	7	46	174	39	9
196	198	198	197	199	200	205	202	205	199	22	00	205	12	53	193	12	10
206	199	192	190	190	192	193	193	196	206	7	42	222	19	27	189	33	11
196	201	200	200	201	201	202	203	205	197	24	00	205	13	52	184	21	12
205	206	204	205	206	203	206	203	204	206	5	55	214	9	00	196	18	13
200	202	206	205	208	209	209	209	207	203	23	00	209	13	26	193	16	14
213	215	218	221	217	212	208	209	209	215	13	36	242	4	00	204	38	15
206	200	182	184	181	179	177	180	184	200	13	11	230	22	39	174	56	16
189	191	189	190	193	196	195	192	188	197	10	32	217	17	54	188	29	17
198	203	202	202	205	206	207	207	206	201	22	32	209	0	05	188	21	18
209	207	206	205	205	204	203	202	201	209	12	00	222	24	00	201	21	19
196	194	195	200	199	201	200	200	201	199	7	14	204	17	26	194	10	20
209	212	213	211	209	210	210	209	209	209	12	00	222	8	00	199	23	21
220	222	221	221	219	220	220	220	222	219	12	41	236	7	51	205	31	22
230	225	223	222	220	218	218	218	218	228	13	00	245	21	00	218	27	23
233	227	222	218	217	215	214	220	219	225	10	56	240	21	55	212	28	24
224	215	208	205	207	211	212	214	217	223	11	16	248	19	00	205	43	25
207	213	218	219	219	216	217	220	221	219	11	11	242	16	00	207	35	26
216	219	224	225	223	222	224	222	223	222	11	18	235	15	12	213	22	27
224	220	223	224	224	222	222	222	222	224	13	36	241	7	00	213	28	28
218	216	219	222	223	223	222	222	223	225	12	48	245	17	00	216	29	29
221	223	228	227	224	221	226	223	224	225	10	49	233	20	31	219	14	30
208	208	207	207	207	205	206	207	207	211							33	
210	210	210	211	211	211	211	210	210	213							25	

JULY, 1906.

29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	225	228	229	233	233	235	238	239	231	238	237	228	228	217	209
2*	207	207	209	209	207	212	211	219	226	235	232	225	216	196	186
3*	207	208	208	208	207	206	206	205	209	218	223	222	219	214	205
4	202	202	205	207	206	203	202	205	207	210	209	205	198	200	197
5	198	198	198	194	191	192	190	198	208	214	214	203	199	190	186
6	187	187	190	190	193	192	188	188	188	193	194	196	196	196	196
7*	187	189	189	188	188	188	189	192	195	201	204	205	203	198	194
8	188	189	189	190	191	189	186	184	187	190	195	198	203	205	203
9	198	199	200	200	197	191	189	189	193	200	208	212	213	217	215
10	203	197	205	210	209	202	193	189	192	197	200	202	206	207	204
11	196	196	196	194	194	194	195	201	214	239	245	242	227	224	209
12	170	177	183	183	180	180	181	180	183	183	181	179	176	179	178
13*	185	182	185	185	183	185	185	188	192	196	199	201	199	197	194
14	195	195	191	189	190	192	192	194	195	196	196	193	187	182	184
15	196	197	196	196	197	199	198	198	196	196	194	196	194	194	193
16*	199	199	198	198	199	200	200	200	202	208	206	205	204	199	194
17*	204	203	202	201	201	203	201	212	227	229	234	227	219	211	205
18*	204	204	204	205	203	202	205	208	215	220	219	212	211	214	207
19	197	201	200	201	201	207	212	217	220	229	233	233	234	231	226
20	206	205	205	204	204	205	203	199	209	245	253	265	253	237	227
21	194	199	205	209	200	210	209	198	197	203	206	216	216	207	200
22	200	200	198	199	198	199	203	206	211	213	209	205	197	188	185
23	210	207	205	204	213	206	210	217	231	240	237	235	226	216	220
24	195	194	196	196	194	202	210	219	226	233	240	235	232	223	218
25*	197	194	191	191	195	195	197	194	191	198	202	207	199	194	187
26*	190	191	191	192	193	202	204	209	220	225	225	220	205	199	199
27	205	199	197	183	170	178	192	182	178	181	175	166	168	177	181
28	187	192	194	195	193	193	190	186	187	189	194	187	186	190	197
29	204	204	206	207	209	207	207	209	219	228	228	227	223	217	204
30	(225)	(225)	(226)	(224)	(221)	(218)	(216)	(213)	(213)	211	203	190	194	195	189
31*	191	191	189	188	191	194	194	203	216	223	218	207	195	191	190
Mean.....	198	199	199	199	198	199	200	201	206	212	213	211	207	203	199
Mean*.....	197	197	197	196	197	199	199	203	209	215	216	213	207	201	196

AUGUST, 1906.

29000 γ PLUS TABULAR QUANTITIES.

1	194	192	194	195	190	190	189	183	187	192	205	206	203	194	185
2	197	199	198	198	197	193	188	187	190	197	208	215	211	205	196
3*	206	204	204	202	201	202	201	207	220	225	227	230	220	216	210
4*	202	201	200	198	197	199	201	210	228	228	225	220	213	200	193
5*	208	206	205	203	201	201	199	205	223	234	237	238	232	228	217
6*	206	207	206	205	204	204	205	216	226	234	244	243	236	225	217
7	211	210	210	211	213	212	214	227	234	244	243	235	223	231	228
8	181	169	183	192	183	172	169	164	164	174	180	179	165	163	175
9	189	193	191	189	189	187	181	177	189	199	202	205	200	196	196
10	199	194	191	190	192	191	188	187	188	192	193	193	193	190	190
11	191	191	193	195	194	195	199	213	220	224	229	230	222	218	206
12	197	200	202	204	203	207	213	202	197	199	192	185	174	163	161
13	179	187	176	177	188	187	190	195	197	186	172	170	180	177	175
14	182	180	177	179	182	189	193	192	197	203	201	196	189	179	174
15	187	185	186	189	185	189	197	202	208	214	213	212	207	199	193
16	188	188	188	188	188	191	197	209	215	222	218	213	210	201	192
17	191	195	192	191	191	188	189	185	186	182	176	181	183	184	188
18*	189	188	188	189	189	194	195	194	201	202	199	190	179	173	175
19*	190	191	189	188	188	188	191	193	193	192	196	195	185	180	179
20	190	191	190	181	181	177	182	188	188	192	193	193	187	179	180
21*	188	184	183	179	178	182	179	181	197	204	207	212	209	201	190
22*	184	182	182	180	182	183	184	188	195	197	195	194	194	189	183
23*	181	183	185	185	183	183	184	196	213	225	226	224	214	200	194
24	184	185	186	186	185	187	188	198	203	205	199	200	198	197	189
25	187	191	182	181	183	185	184	190	189	188	185	189	191	197	192
26	191	193	185	193	193	198	207	215	219	214	205	200	194	193	190
27	185	183	182	183	185	188	190	194	197	197	194	193	185	174	166
28*	171	174	173	173	173	170	174	185	198	203	197	189	174	171	165
29	172	174	176	176	171	177	176	178	180	180	179	171	164	161	157
30	169	174	172	172	172	173	173	176	182	191	193	185	175	169	163
31	175	183	168	174	172	173	182	184	188	186	182	179	178	176	172
Mean.....	189	190	188	189	188	189	190	194	200	204	204	202	196	191	187
Mean*.....	192	192	192	190	190	191	191	198	209	214	215	214	206	198	192

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF HORIZONTAL INTENSITY.

65

JULY, 1906.

 29000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
212	213	214	215	214	211	208	203	204	223	10	34	242	23	00	203	39	1
187	193	197	201	203	208	205	206	209	209	10	09	235	15	00	186	49	2
194	198	198	197	197	198	200	201	200	206	11	16	223	15	56	189	34	3
197	194	191	191	189	190	191	194	198	200	10	00	210	20	11	188	22	4
175	182	185	189	190	188	181	178	180	193	10	20	216	22	28	175	41	5
190	192	191	191	191	190	188	186	186	191	14	47	197	0	01	180	17	6
191	190	188	188	189	189	190	188	189	192	12	00	205	0	01	186	19	7
196	193	193	193	194	195	195	197	197	193	14	00	205	8	00	184	21	8
209	201	196	198	199	199	215	213	211	203	14	05	217	8	00	189	28	9
200	192	193	192	193	194	193	196	196	199	4	18	212	7	49	187	25	10
160	143	127	153	146	165	165	165	168	190	11	12	252	17	49	119	133	11
177	184	185	185	180	180	181	183	186	181	24	00	186	0	16	166	20	12
192	189	188	185	182	182	185	186	191	189	11	46	202	20	20	181	21	13
186	192	192	191	192	194	196	195	196	192	9	21	196	14	37	180	16	14
193	190	193	196	196	197	198	199	199	196	24	00	199	17	24	188	11	15
186	194	200	204	203	204	209	206	206	201	10	24	209	16	00	186	23	16
198	195	197	202	201	202	202	204	204	208	10	58	234	17	25	194	40	17
201	198	202	202	198	201	203	200	203	206	10	00	220	16	39	197	23	18
216	209	206	210	208	208	207	210	207	213	11	38	234	0	47	195	39	19
214	204	204	209	209	205	206	205	202	216	12	05	268	8	00	199	69	20
191	189	188	190	190	190	195	194	198	200	12	14	217	18	00	188	29	21
189	194	200	201	202	209	208	207	207	201	9	42	214	15	12	185	29	22
211	208	194	192	197	195	193	191	193	210	9	59	240	18	35	189	51	23
211	208	204	202	206	202	200	195	185	209	10	54	240	23	56	185	55	24
183	182	192	189	189	189	191	192	191	193	12	00	207	16	28	181	26	25
198	191	189	191	192	190	190	192	197	200	10	11	226	17	45	188	38	26
174	179	175	172	169	163	175	178	181	179	1	06	207	21	17	161	46	27
194	205	203	200	203	206	203	202	205	195	23	33	209	0	08	180	29	28
218	216	224	(225)	(226)	(225)	(223)	(224)	(224)	217	9	21	238	15	33	200	38	29
178	180	175	186	192	187	187	189	191	201	3	00	226	17	34	171	55	30
185	181	189	192	194	192	194	191	188	195	10	03	223	17	00	181	42	31
194	193	193	195	195	195	196	196	197	200							36	
192	191	194	195	195	196	197	197	198	200							32	

AUGUST, 1906.

 29000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
187	192	195	191	190	189	195	198	198	193	11	55	207	8	00	183	24	1
192	190	195	203	203	203	204	206	205	199	12	22	215	8	00	187	28	2
202	193	193	194	195	194	198	199	199	206	11	51	230	18	15	191	39	3
195	201	199	202	203	204	203	202	204	205	9	14	229	15	17	192	37	4
209	203	203	201	201	201	203	204	204	211	11	20	238	7	00	199	39	5
211	207	204	207	207	207	207	208	209	214	11	07	245	17	46	203	42	6
249	198	135	166	179	160	164	146	168	205	15	41	274	18	12	127	147	7
185	192	182	173	177	178	180	182	186	177	3	34	194	14	09	157	37	8
190	189	187	183	185	181	186	193	196	191	11	04	205	7	28	173	32	9
189	189	189	190	190	189	194	192	193	191	1	00	199	8	00	187	12	10
203	199	202	202	201	199	201	200	197	205	12	07	232	0	26	190	42	11
156	147	145	158	160	163	162	157	184	180	7	00	213	17	43	141	72	12
165	170	171	172	175	182	183	182	179	180	8	30	197	16	00	165	32	13
168	172	178	180	181	184	185	185	187	185	9	49	203	15	58	168	35	14
190	183	181	181	186	188	188	188	187	193	10	00	214	19	21	179	35	15
181	180	179	178	180	183	182	191	188	194	10	08	222	18	05	176	46	16
191	192	191	190	189	192	194	192	190	188	2	12	197	11	00	176	21	17
184	181	186	190	190	190	196	192	192	189	10	17	203	14	22	172	31	18
182	183	185	183	189	190	190	190	190	188	11	45	199	15	29	176	23	19
179	179	183	187	185	187	186	184	184	185	11	06	193	6	00	177	16	20
184	178	177	179	178	176	180	181	181	187	11	48	213	20	55	175	38	21
178	177	178	181	179	177	180	180	182	184	9	32	198	17	24	176	22	22
187	185	184	183	181	177	179	180	182	192	10	42	228	21	00	177	51	23
183	180	182	180	178	182	187	184	190	189	9	36	205	20	00	178	27	24
186	187	193	194	198	198	197	198	194	190	22	46	199	3	15	179	20	25
188	189	186	187	185	172	168	176	185	193	8	50	219	21	33	165	54	26
140	152	163	165	165	161	174	170	166	177	9	32	197	16	00	140	57	27
161	166	169	172	174	175	176	176	171	176	10	05	204	15	48	161	43	28
161	162	166	152	158	169	171	175	172	170	9	00	180	18	55	149	31	29
162	163	171	173	175	183	188	186	176	176	10	09	193	17	07	162	31	30
163	158	160	168	172	173	177	177	175	175	9	17	188	17	00	158	30	31
184	182	181	183	184	184	186	186	188	190							39	
189	187	188	189	190	189	191	191	191	195							36	

NOTE.—Values in parentheses were interpolated.

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SEPTEMBER, 1906.

29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	178	174	176	176	176	176	178	187	203	223	233	231	224	209	192
2	188	179	185	180	179	179	174	172	174	182	184	184	189	191	189
3	184	188	187	185	183	182	175	176	189	204	218	224	228	213	212
4	171	166	173	170	174	164	161	153	151	158	156	162	157	170	160
5	188	179	180	179	178	169	169	160	165	165	162	167	166	170	178
6	188	186	186	185	186	177	177	171	171	177	185	184	181	181	179
7*	181	180	181	180	183	183	185	178	181	191	196	197	199	196	186
8	184	183	181	181	182	184	194	212	221	224	223	219	213	207	197
9*	187	186	191	191	190	190	193	201	212	220	223	225	220	212	204
10*	186	186	187	189	189	189	190	189	194	205	208	209	208	201	194
11*	189	190	193	193	194	194	194	196	198	201	207	214	210	206	192
12*	189	190	192	190	190	195	199	203	207	206	200	197	189	183	178
13*	194	196	197	198	194	190	184	176	175	174	179	184	182	179	178
14	188	186	187	188	190	186	176	170	170	177	177	180	175	171	172
15	190	194	192	185	186	188	183	191	192	199	200	198	193	185	175
16*	173	178	177	176	177	180	181	198	204	208	205	205	198	192	184
17	177	178	178	182	182	183	179	172	166	172	179	184	182	179	177
18*	184	180	179	181	184	181	171	170	167	174	177	179	184	187	186
19	185	186	186	189	187	184	176	164	164	174	184	184	183	183	179
20	195	193	194	192	192	190	186	184	185	188	191	191	196	194	184
21	186	186	181	193	193	190	185	187	188	189	192	192	196	189	185
22	181	180	181	181	184	186	182	176	182	187	182	186	187	154	169
23	123	124	131	137	141	140	139	136	141	148	159	156	129	144	142
24	147	148	146	149	157	160	167	170	168	165	164	159	157	148	137
25	162	161	165	174	169	173	178	177	176	174	170	172	170	159	155
26*	160	162	164	169	167	175	166	156	149	153	165	167	162	153	136
27	165	169	168	170	168	167	163	159	156	160	163	163	156	153	154
28	172	173	171	172	174	176	174	174	174	174	176	175	178	170	159
29	176	177	178	179	181	178	180	176	181	183	184	180	181	179	175
30	172	172	169	174	177	179	178	174	176	167	167	163	166	151	156
Mean.....	178	178	179	180	180	180	178	177	179	184	187	188	185	180	176
Mean*.....	182	182	184	184	184	185	184	185	189	196	199	201	198	192	183

OCTOBER, 1906.

29000 γ PLUS TABULAR QUANTITIES.

1	173	168	178	181	170	170	174	176	174	168	171	160	166	166	163
2*	168	166	167	168	169	170	169	169	171	171	173	181	181	172	167
5	169	172	174	178	177	174	169	168	169	167	175	179	176	181	182
4	175	176	177	178	175	175	172	174	183	187	191	193	189	184	160
5*	174	173	179	174	176	174	175	174	173	177	181	179	176	174	170
6*	176	174	175	176	175	175	173	169	173	175	172	173	166	162	162
7	179	178	177	179	179	178	177	169	165	160	160	161	161	160	165
8*	180	180	184	187	186	185	180	177	178	183	192	196	194	187	180
9*	182	183	185	189	189	188	192	200	205	207	211	213	202	188	177
10*	181	183	183	185	184	185	188	191	192	188	187	186	185	177	173
11	181	181	180	180	179	178	185	194	199	203	205	201	187	174	170
12	170	175	176	174	184	173	174	174	174	162	177	175	169	161	155
13	165	176	175	174	171	168	170	173	170	172	166	160	142	141	133
14*	169	170	176	174	175	172	172	171	167	169	175	173	168	168	164
15	168	169	172	173	177	178	177	177	178	181	179	183	181	175	173
16*	180	178	182	184	184	177	174	171	181	189	197	195	189	182	178
17*	174	176	176	175	176	175	177	183	191	194	194	190	187	181	172
18*	179	179	180	180	179	180	185	188	192	199	201	197	192	186	178
19	181	175	180	183	185	182	183	186	189	193	194	192	174	165	153
20	†...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean.....	175	175	178	178	178	176	177	178	180	181	184	183	178	173	168
Mean*.....	176	176	179	179	179	178	178	179	182	185	188	188	184	178	172

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

† Not in good adjustment from October 19 to November 1.

HOURLY VALUES OF HORIZONTAL INTENSITY.

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SEPTEMBER, 1906.

29000 γ PLUS TABULAR QUANTITIES.

16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
173	169	173	175	176	180	182	185	185	189	11	00	233	17	15	167	66	1
175	174	186	193	185	187	188	184	182	183	13	26	194	16	28	171	23	2
199	162	145	150	159	156	156	170	165	184	12	46	229	18	40	144	85	3
164	161	167	180	180	179	173	189	186	168	4	42	189	13	09	151	38	4
176	172	170	168	182	178	177	180	190	174	0	42	193	8	00	160	33	5
176	174	177	176	180	178	179	190	184	180	0	07	192	8	45	166	26	6
181	178	178	178	180	182	182	181	183	184	12	51	200	19	20	178	22	7
190	187	189	189	190	190	191	189	192	196	10	11	225	3	00	181	44	8
193	187	188	188	186	186	187	187	187	197	11	41	226	21	31	186	40	9
189	188	190	190	190	191	190	190	190	193	12	00	209	1	00	186	23	10
184	184	186	191	192	187	182	181	185	193	12	00	214	22	25	178	36	11
179	184	190	195	196	193	191	189	195	192	8	24	210	15	33	178	32	12
183	185	189	187	185	187	183	179	181	185	3	25	199	8	26	172	27	13
177	179	187	188	189	191	192	187	190	182	23	45	192	14	51	170	22	14
171	189	193	176	176	177	177	178	176	186	10	26	200	15	40	167	33	15
177	169	177	178	174	178	180	177	178	184	10	09	208	16	38	169	39	16
177	179	185	189	188	191	182	179	187	180	23	23	191	8	55	165	26	17
182	179	183	183	184	183	181	184	185	180	14	00	187	8	56	167	26	18
180	185	189	188	190	191	191	192	192	184	22	51	193	8	26	161	32	19
183	185	178	179	173	177	177	179	182	186	1	00	195	20	03	173	22	20
179	183	183	181	183	182	181	187	182	186	13	00	196	16	03	177	19	21
184	170	93	81	98	84	102	99	117	155	12	50	191	18	48	45	146	22
141	147	153	157	154	155	148	146	161	144	24	00	161	0	00	117	44	23
144	155	154	160	162	159	162	157	158	156	7	39	170	15	00	137	33	24
164	169	173	174	171	167	166	171	159	169	7	33	180	14	38	146	34	25
144	154	165	162	166	166	165	164	164	161	6	15	175	15	30	133	42	26
159	165	169	170	171	173	172	173	172	165	23	00	173	14	00	153	20	27
158	164	173	171	173	179	176	176	175	172	21	07	181	15	40	155	26	28
176	170	157	160	168	171	172	173	172	175	9	43	186	18	13	156	30	29
160	167	163	168	171	172	173	161	178	169	6	39	180	14	06	150	30	30
174	174	173	174	176	176	175	176	178	178							37	
178	178	182	183	183	183	182	182	183	186							35	

OCTOBER, 1906.

29000 γ PLUS TABULAR QUANTITIES.

159	162	157	151	150	164	167	167	169	167	3	28	189	19	10	151	38	1
166	165	166	166	176	171	163	165	169	170	12	38	182	22	20	161	21	2
173	170	170	170	172	171	176	178	175	174	12	26	185	17	18	167	18	3
157	162	164	171	171	171	173	172	182	176	11	50	194	15	37	155	39	4
169	171	170	172	167	167	172	175	175	174	11	05	181	20	00	167	14	5
166	171	173	175	176	175	177	178	177	173	23	00	178	14	34	161	17	6
176	182	182	179	176	175	174	179	179	173	5	35	179	13	47	160	19	7
176	178	178	178	178	178	177	179	181	182	12	23	197	16	00	176	21	8
173	177	175	173	173	174	177	179	180	187	12	00	213	20	00	173	40	9
175	178	178	182	183	180	175	173	176	182	9	00	192	23	00	173	19	10
168	168	171	165	167	163	168	168	174	180	11	00	205	20	57	162	43	11
156	161	163	164	162	163	166	165	165	168	5	00	184	15	39	154	30	12
139	153	158	161	158	160	160	160	164	161	1	50	177	15	00	133	44	13
162	166	166	167	168	168	167	166	166	169	3	26	178	15	50	161	17	14
170	178	182	185	180	180	180	180	179	177	12	03	185	15	35	167	18	15
179	181	182	177	179	175	176	176	176	181	11	25	197	7	51	170	27	16
170	174	176	179	179	179	179	178	178	180	10	00	194	16	00	170	24	17
177	180	180	181	179	175	183	185	184	184	10	54	202	21	00	175	27	18
152	...	...	...	...	...	...	...	...	...	10	24	195	14	57	152	43	19
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
167	171	172	172	172	172	173	174	175	175							27	
171	174	174	175	176	174	175	175	176	178							23	

NOVEMBER, 1906.

29000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2	†	167	169	173	172	174	181	191	199	200	200	197	192	186	181
3		179	179	180	181	182	196	203	205	205	203	198	190	182	180
4		179	179	180	181	182	196	203	205	205	203	198	190	182	180
5		150	154	164	169	173	187	195	202	201	196	197	191	186	179
6		176	176	178	180	183	190	189	196	200	200	201	198	189	181
7		178	179	178	179	(180)	(192)	195	194	195	198	196	197	189	183
8		152	157	158	169	167	182	188	189	192	190	182	167	156	150
9*		171	173	175	176	177	183	187	185	186	189	183	170	162	157
10		168	171	176	178	181	183	185	184	182	180	171	175	177	188
11*		162	166	170	174	177	185	194	194	188	187	181	177	171	164
12*		161	162	164	165	167	177	182	187	188	189	182	177	175	173
13	(172)	(173)	(175)	(177)	(178)	(180)	(186)	188	191	189	191	184	175	169	167
14*		177	176	178	179	175	178	179	181	182	184	180	177	176	173
15*		175	177	177	176	176	182	182	182	181	181	178	176	176	178
16		179	178	178	179	180	182	182	184	183	179	177	181	183	186
17		184	181	181	180	180	182	185	183	186	187	184	191	193	194
18		193	192	192	188	185	189	190	191	191	191	189	193	194	187
19		186	184	183	182	181	184	184	184	183	182	180	181	183	182
20		186	186	186	185	184	184	182	180	180	180	180	181	182	183
21		180	180	181	181	180	180	178	178	179	180	178	177	167	162
22		155	146	156	157	150	151	157	163	160	159	154	150	141	137
23		161	157	160	161	164	174	174	179	177	174	166	156	153	148
24		167	166	170	172	173	178	180	178	176	175	173	173	169	168
25*		109	170	171	180	182	192	192	188	195	201	202	196	201	202
26*		177	178	178	177	176	182	186	185	180	180	179	172	166	170
27*		175	173	173	174	174	180	177	172	172	173	172	171	167	169
28*		170	168	171	174	177	184	187	188	190	189	183	176	175	170
29*		163	182	183	185	184	189	186	182	179	180	174	169	(166)	(167)
30		175	174	174	173	172	171	171	171	175	180	177	175	172	175
Mean.....		173	173	174	176	176	182	184	184	184	185	181	178	175	173
Mean*.....		172	172	174	176	176	183	185	184	184	185	181	176	174	172

DECEMBER, 1906.

29000 γ PLUS TABULAR QUANTITIES.

1	180	177	174	176	178	184	190	192	188	187	187	183	180	173	170
2	170	166	166	174	174	179	190	187	186	181	180	176	167	161	170
3*	166	167	168	170	172	172	177	178	178	174	172	170	170	170	169
4	163	162	163	163	162	161	162	170	172	174	176	171	160	(158)	(155)
5	174	168	165	163	162	161	166	169	170	172	176	169	164	161	158
6	165	167	166	168	168	169	169	170	171	174	173	166	(162)	(159)	(159)
7*	163	161	160	163	164	165	170	174	173	176	175	173	167	163	165
8	173	172	178	175	177	162	170	167	168	166	155	147	138	129	123
9	122	136	135	141	143	145	148	150	160	164	166	161	157	151	152
10	157	158	158	159	159	160	165	168	172	175	176	174	171	167	162
11*	167	169	168	168	168	169	169	173	173	174	172	166	164	165	167
12*	172	172	171	173	173	174	176	175	174	174	174	169	(166)	(165)	(165)
13	175	175	175	175	175	176	178	177	176	176	176	176	173	170	171
14	172	173	171	171	170	170	170	169	170	169	169	170	166	168	170
15*	165	166	165	166	169	170	173	171	169	170	173	172	168	166	163
16	158	159	161	161	162	162	163	163	163	163	159	160	170	167	159
17	153	154	155	153	153	152	154	154	153	153	154	152	151	150	151
18	164	163	163	161	162	162	164	166	165	164	165	168	166	162	160
19*	162	163	162	162	163	164	165	167	168	169	170	172	168	165	165
20	169	169	169	169	170	168	168	170	171	171	170	169	169	167	169
21	172	171	171	169	170	170	171	174	177	180	182	179	174	172	172
22	140	137	144	146	156	154	161	160	141	127	116	110	107	98	99
23	128	138	136	136	137	139	143	147	148	153	154	153	151	142	140
24	154	151	152	152	153	153	154	155	154	152	155	151	147	143	144
25*	155	155	156	156	156	157	159	161	159	159	158	155	151	152	154
26*	159	160	161	161	161	162	163	165	165	164	162	159	151	148	147
27*	152	152	153	155	156	157	158	159	158	158	158	157	155	154	154
28	153	152	154	155	156	157	157	158	159	155	150	150	147	146	148
29*	161	163	166	167	168	169	173	173	171	172	175	170	155	158	162
30	163	165	168	170	170	172	176	176	171	166	161	167	166	160	157
31	158	161	164	166	167	170	179	185	184	182	179	169	152	144	150
Mean.....	161	161	162	163	164	164	167	168	168	168	167	164	160	157	156
Mean*.....	162	163	163	164	165	166	168	170	169	169	169	166	162	161	161

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

† Not in good adjustment from October 19 to November 1.

NOVEMBER, 1906.

29000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
r	r	r	r	r	r	r	r	r	r	h	m	r	h	m	r	r	
177	173	171	161	163	166	167	167	167	180	10	00	200	11	00	167	33	1
176	173	171	173	174	174	175	175	178	180	9	41	207	15	54	175	32	2
164	156	159	158	154	147	145	145	147	180	8	00	202	22	12	143	59	3
169	169	169	169	168	169	168	173	172	180	0	02	147	147	02	147	..	4
171	171	175	178	180	179	178	177	179	184	12	05	206	16	34	169	37	5
182	184	186	180	182	170	161	156	154	182	11	08	198	23	18	154	44	6
146	151	156	157	156	159	162	164	166	166	10	29	192	16	00	146	46	7
159	161	163	161	161	159	158	165	161	171	10	33	192	21	06	157	35	8
189	193	192	181	158	150	157	164	160	176	17	27	198	20	19	149	49	9
161	155	153	150	156	161	161	160	161	170	8	28	195	18	55	150	45	10
171	173	173	173	173	170	(171)	(171)	(172)	174	10	22	189	0	58	160	29	11
168	181	189	186	185	183	183	180	180	180	10	20	192	15	00	167	25	12
173	184	188	183	182	181	179	177	175	179	17	27	190	15	27	171	19	13
179	184	186	183	181	180	179	180	181	180	8	48	186	1	00	175	11	14
189	191	193	192	191	191	189	187	185	184	18	00	193	1	16	177	16	15
194	197	198	198	198	199	196	194	191	189	21	00	199	2	40	179	20	16
185	189	190	188	187	189	186	185	185	189	13	30	194	15	52	185	9	17
182	188	189	189	189	189	188	187	186	184	18	00	189	12	30	179	10	18
183	189	189	188	186	185	185	183	181	184	17	00	189	12	30	178	11	19
159	155	155	117	127	137	142	134	132	189	3	00	181	18	00	90	91	20
132	147	155	156	157	155	156	158	157	152	8	52	164	0	08	132	32	21
151	158	165	167	168	165	166	166	165	164	8	15	180	15	00	148	32	22
166	166	176	185	180	171	168	172	171	173	19	20	188	16	40	165	23	23
198	198	196	198	193	192	187	180	179	189	11	18	203	1	25	169	34	24
172	172	172	177	178	175	171	169	172	176	8	00	186	14	00	166	20	25
171	173	179	180	179	176	174	174	173	174	7	00	180	14	07	165	15	26
171	169	174	178	178	177	177	178	179	178	10	11	190	15	44	168	22	27
(168)	169	172	172	172	174	175	174	174	177	7	23	190	14	00	166	24	28
173	173	174	174	177	182	184	179	174	175	22	13	184	8	22	168	16	29
172	176	178	178	177	175	175	174	174	177							30	
172	174	176	176	175	174	173	173	173	177							25	

DECEMBER, 1906.

29000 γ PLUS TABULAR QUANTITIES.

170	177	181	182	177	166	156	162	166	177	8	00	192	22	34	152	40	1
174	177	175	171	155	150	156	162	164	171	7	08	192	20	52	149	43	2
169	171	168	168	164	168	168	165	163	170	7	42	179	23	20	163	16	3
(154)	154	157	157	162	166	170	171	171	164	10	26	177	17	08	152	25	4
156	152	151	154	157	160	164	164	164	163	11	00	176	17	24	150	26	5
(159)	155	158	161	162	159	155	160	164	164	10	00	174	17	16	152	22	6
165	161	159	161	163	166	169	170	170	166	10	20	177	17	28	156	21	7
125	123	120	125	126	130	128	129	126	147	3	05	180	18	29	119	61	8
151	147	148	150	152	154	155	155	156	150	10	36	166	1	00	122	44	9
163	163	166	166	166	165	164	166	168	165	10	24	176	0	00	156	20	10
169	169	171	170	170	170	172	172	171	169	9	53	174	12	46	163	11	11
(166)	165	166	168	169	171	171	172	174	171	7	00	176	16	27	162	14	12
168	165	167	171	173	175	173	175	173	174	7	23	179	17	00	165	14	13
169	164	165	166	166	165	166	164	164	168	2	10	174	17	59	164	10	14
163	156	156	157	161	157	155	156	156	164	11	26	173	21	49	154	19	15
157	151	149	144	145	142	149	153	152	157	12	43	172	19	33	138	34	16
158	155	158	158	161	159	158	157	160	155	20	00	161	14	00	150	11	17
161	161	161	161	162	161	161	161	161	163	12	16	169	0	01	160	9	18
166	165	166	164	163	163	164	167	167	165	11	46	173	0	00	161	12	19
170	167	167	168	168	168	169	170	171	169	9	33	172	17	00	167	5	20
172	168	167	156	151	140	145	135	137	166	10	26	182	23	29	133	49	21
96	101	117	113	112	114	126	123	125	126	7	26	165	16	00	96	69	22
143	145	145	146	145	146	145	143	148	144	11	26	154	0	32	122	32	23
148	150	151	152	152	153	153	154	155	152	8	19	156	14	22	143	13	24
155	156	155	156	156	156	156	157	158	156	7	52	161	13	22	150	11	25
145	142	143	147	147	145	146	147	150	154	8	40	166	17	41	140	26	26
154	154	154	155	154	154	152	154	152	155	10	39	159	16	30	152	7	27
148	149	154	157	156	158	161	160	163	154	24	00	163	14	00	146	17	28
108	106	163	161	162	162	162	159	161	165	10	55	176	14	06	155	21	29
155	151	150	150	150	148	147	149	156	161	7	51	176	21	45	147	29	30
155	163	164	165	167	169	169	171	171	167	8	29	186	13	57	144	42	31
157	156	157	157	157	157	158	158	159	161							25	
162	160	160	161	161	161	162	162	162	164							16	

NOTE.—Values in parentheses were interpolated.

MARCH, 1905.

33500r PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11*	483	483	482	482	482	484	482	478	475	467	471	468	466	468	473
12*	482	482	477	480	480	479	480	474	469	473	478	476	473	471	470
13*	482	480	479	479	477	478	478	473	474	471	471	467	471	473	474
14	486	486	482	481	478	482	478	474	470	470	467	467	468	474	473
15	488	486	484	486	483	481	481	473	472	471	474	475	479	482	479
16	482	482	488	479	476	477	475	473	470	470	473	476	475	478	479
17	476	478	478	478	475	472	469	464	464	461	466	478	474	476	477
18*	473	474	475	475	473	474	470	465	461	462	463	463	459	463	465
19*	471	469	472	470	468	469	467	464	460	462	460	458	460	464	471
20*	471	475	475	475	476	474	471	467	461	462	460	462	466	466	470
21*	475	476	476	475	477	477	473	467	463	458	459	463	467	472	474
22*	477	477	477	478	480	480	473	469	463	461	463	467	470	472	472
23*	476	476	476	477	476	474	476	474	469	467	464	461	462	463	462
24*	477	475	473	471	471	472	473	467	463	463	465	461	461	466	468
25	473	473	470	470	471	470	468	468	465	465	463	464	466	468	470
26	480	477	475	475	474	472	473	472	471	470	472	474	475	474	476
27	479	476	474	475	475	474	472	470	467	465	464	463	463	467	469
28	461	459	456	455	454	452	448	449	453	453	446	447	443	440	438
29	452	452	452	452	452	453	452	449	447	446	448	451	450	456	457
30	467	469	471	469	468	465	459	458	457	456	460	464	461	456	458
31	471	470	473	476	474	475	472	474	472	475	477	481	482	483	484
Mean.....	475	475	475	474	473	473	471	468	465	464	465	466	466	468	469
Mean*....	477	477	476	476	476	476	474	470	466	465	465	465	466	468	470

APRIL, 1905.

33500r PLUS TABULAR QUANTITIES.

1	474	459	467	476	470	472	472	459	470	429	449	467	465	479	483
2	470	477	473	479	479	472	476	462	453	457	461	465	469	467	473
3	478	476	481	485	485	483	478	473	470	469	467	471	474	478	477
4*	477	476	473	479	477	477	472	462	462	461	463	463	466	471	475
5*	478	477	480	482	484	487	484	478	474	464	463	463	468	469	476
6	487	484	482	484	487	484	482	477	484	482	479	477	479	482	480
7	480	482	481	482	481	483	478	476	472	473	468	468	474	476	479
8	482	480	479	482	481	480	478	478	475	476	472	472	476	472	473
9	478	476	476	477	478	476	474	474	473	472	468	469	472	475	472
10*	484	482	480	478	476	477	473	467	466	466	468	471	470	472	475
11*	483	484	482	483	482	481	478	472	471	471	466	466	470	477	478
12*	477	479	474	472	470	470	464	461	462	460	459	458	461	464	464
13*	470	472	471	472	470	470	466	465	465	471	473	476	476	476	475
14	470	471	470	467	468	465	464	461	461	466	469	472	478	475	480
15	474	477	477	473	473	471	463	459	459	460	463	469	477	478	478
16*	474	478	478	476	476	474	470	468	469	470	470	470	472	474	473
17	474	476	480	477	475	473	471	469	469	469	469	469	474	476	477
18	473	474	476	474	474	472	465	463	466	466	468	467	468	470	468
19	469	471	471	473	476	473	471	473	472	470	467	467	473	479	480
20*	472	477	478	476	482	481	477	477	469	469	463	463	469	475	475
21	470	481	485	488	490	494	489	486	479	481	478	480	477	480	483
22*	486	485	481	481	481	479	477	473	466	464	463	459	460	464	465
23*	473	473	471	469	470	471	470	472	471	474	475	468	468	470	470
24	478	475	472	473	473	472	471	476	478	477	475	474	475	475	471
25	473	473	471	470	470	468	466	468	473	478	480	478	475	477	477
26	476	477	477	482	483	481	479	475	474	480	479	479	487	488	485
27	480	483	478	478	474	474	469	473	473	475	480	482	484	485	488
28	486	485	484	484	482	482	476	477	478	460	487	488	491	491	489
29	492	486	482	484	484	479	468	467	469	471	476	477	484	493	488
30	488	488	486	483	483	481	475	478	475	475	482	485	485	494	503
Mean.....	478	478	477	478	478	477	473	471	470	469	470	471	474	477	478
Mean*....	477	478	477	477	477	477	473	470	468	467	466	466	468	471	473

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

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33500 r PLUS TABULAR QUANTITIES.

33500 γ PLUS TABULAR QUANTITIES.

NOTE.—Values in parentheses were interpolated. † Not in good adjustment before this.

MAY, 1905.

33500₇ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	499	500	506	497	494	490	483	475	478	484	485	495	497	504	505
2	491	491	500	499	493	493	484	474	461	462	463	469	472	482	483
3*	480	478	478	480	480	479	472	471	464	466	465	458	470	477	475
4	478	476	479	482	484	481	474	466	463	463	470	470	471	473	471
5	464	465	465	468	467	469	461	456	453	453	453	455	461	467	476
6*	482	482	481	481	483	484	473	474	474	473	472	469	(472)	(474)	(475)
7*	463	460	462	462	465	467	460	452	449	457	468	474	469	473	474
8	485	481	480	482	483	487	485	482	483	486	483	482	483	483	487
9	497	494	490	488	484	487	483	479	478	478	479	479	480	484	490
10	504	500	498	497	493	493	492	489	489	489	490	493	492	493	497
11	485	484	480	479	478	482	482	484	489	482	485	484	487	490	487
12*	497	498	496	495	490	494	491	490	491	485	479	482	482	485	494
13	491	488	487	484	483	482	475	483	481	478	485	488	492	492	494
14*	484	486	487	485	484	482	477	470	469	468	474	474	477	486	495
15	486	486	488	488	489	485	479	478	475	481	484	485	491	497	498
16	506	509	511	509	509	504	495	495	496	495	495	495	501	508	510
17	490	493	496	490	493	490	484	482	481	481	481	479	481	491	491
18*	486	487	489	491	496	492	484	473	469	473	474	474	476	479	487
19*	484	485	486	489	488	490	485	478	472	472	474	474	472	471	484
20	487	484	487	485	490	493	490	490	488	488	492	490	488	489	490
21*	492	490	489	486	491	490	486	484	486	487	489	489	493	490	491
22	490	489	488	486	489	487	479	478	478	479	481	483	484	486	492
23	493	493	491	489	487	488	487	490	488	491	491	494	491	490	489
24	485	482	480	476	474	473	474	476	479	489	496	496	489	486	483
25	472	470	470	474	475	475	472	475	479	487	490	488	486	489	490
26*	494	492	492	491	489	485	481	479	481	484	483	483	481	485	483
27*	504	504	509	499	498	498	494	495	490	497	497	503	501	508	506
28	505	502	501	501	499	499	490	492	492	493	491	494	495	500	500
29	494	495	497	496	496	495	487	484	484	491	489	497	504	505	499
30	490	489	492	491	494	490	480	480	482	488	495	496	498	501	501
31	493	494	496	496	496	493	486	482	482	479	475	474	479	482	483
Mean....	489	488	489	488	488	487	481	479	478	480	481	483	484	488	490
Mean*....	487	486	487	486	486	486	480	477	474	475	476	478	479	483	486

JUNE, 1905.

33500₇ PLUS TABULAR QUANTITIES.

1	492	492	495	†...	...	...	...	...	...	...	...	...	...	...	...
2	484	488	488	494	497	498	491	486	490	496	499	495	493	497	496
3	487	492	495	502	500	500	500	496	495	497	491	487	485	491	494
4	494	493	495	496	499	502	501	494	493	480	462	462	478	481	488
5	492	498	491	506	497	497	503	492	487	487	487	488	493	493	489
6	486	483	483	485	490	489	489	488	486	488	496	497	498	498	494
7	486	486	492	488	492	492	490	490	490	490	496	495	496	496	497
8	492	491	491	488	491	490	482	483	482	493	494	493	492	500	492
9	494	492	491	495	496	494	494	491	489	481	481	487	493	492	493
10	492	486	490	491	491	489	484	495	500	500	495	496	495	497	493
11	490	488	490	492	500	489	479	477	473	484	483	480	479	481	486
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean....	490	490	491	494	495	495	493	491	490	490	489	489	491	494	493
Mean*....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

†Moved Eschenhagen magnetograph to center of room.

HOURLY VALUES OF VERTICAL INTENSITY.

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MAY, 1905.

33500 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
502	500	500	497	492	495	491	490	488	494	3	00	506	8	00	475	31	1
486	487	479	487	486	483	482	479	477	482	3	00	500	9	00	461	39	2
476	479	478	484	486	485	484	481	480	475	20	00	486	11	00	455	31	3
470	473	471	478	478	475	468	462	463	472	5	00	484	9	00	463	21	4
486	488	494	497	496	493	489	486	483	473	19	00	497	11	00	453	44	5
(477)	478	474	476	479	473	469	468	465	475	6	00	484	24	00	465	19	6
476	481	484	489	486	487	490	492	489	472	23	00	492	9	00	449	43	7
490	491	496	501	501	500	499	497	499	489	20	00	501	3	00	480	21	8
492	496	499	499	503	504	506	505	504	491	22	00	506	9	00	478	28	9
497	495	493	489	489	488	489	488	486	493	1	00	504	24	00	486	18	10
485	488	490	495	497	501	500	499	496	488	21	00	501	5	00	478	23	11
502	501	501	495	494	493	494	493	491	492	16	00	502	11	00	479	23	12
492	491	488	484	483	483	483	483	482	486	15	00	494	7	00	475	19	13
493	492	491	487	484	482	482	480	484	482	15	00	495	10	00	468	27	14
493	(490)	488	491	492	494	499	501	504	489	24	00	504	9	00	475	29	15
511	501	496	495	492	491	489	488	489	500	2	54	516	23	00	488	28	16
495	489	490	487	491	488	484	484	484	487	4	43	498	12	00	479	19	17
488	485	488	491	490	480	489	492	487	484	5	47	496	9	00	469	27	18
485	485	486	491	491	491	490	488	488	483	19	00	491	10	00	472	19	19
490	488	488	490	493	495	494	494	492	490	21	00	495	2	00	484	11	20
490	491	491	496	497	499	498	495	492	491	21	00	499	8	00	484	15	21
491	497	497	498	500	499	500	499	496	489	22	00	500	8	00	478	22	22
487	484	487	484	482	483	485	490	488	488	12	25	495	6	36	482	13	23
481	479	476	474	476	473	476	477	476	480	12	08	497	6	00	473	24	24
488	489	490	489	490	491	494	495	495	484	24	00	495	1	37	469	26	25
483	481	489	495	499	499	503	499	501	489	22	00	503	8	00	479	24	26
502	505	499	501	506	508	505	504	506	502	3	00	509	9	00	490	19	27
506	502	501	499	500	493	488	490	493	497	16	00	506	21	40	487	19	28
500	500	496	496	493	494	486	488	493	494	14	00	505	8	00	484	21	29
498	497	499	498	494	493	496	491	493	493	14	00	501	8	00	480	21	30
487	490	492	494	494	494	492	491	492	488	5	26	498	12	00	474	24	31
490	490	490	491	491	491	490	489	489	487							24	
487	488	488	490	491	490	490	489	488	485							25	

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33500 γ PLUS TABULAR QUANTITIES.

...	477	477	479	479	478	477	479	482	16	34	474	...	1
496	491	489	491	490	493	487	488	487	492	11	00	499	00	19	482	17
497	496	494	492	492	491	494	491	490	494	6	05	501	13	00	485	16
491	487	485	487	493	493	497	490	491	489	6	00	502	12	00	462	40
489	492	495	492	493	488	492	491	488	492	4	21	509	11	00	487	22
499	490	490	488	489	494	493	492	492	491	12	33	506	3	00	483	23
498	492	492	496	496	497	498	497	495	493	22	00	498	2	00	486	12
495	488	482	481	485	488	491	490	492	489	13	29	501	19	00	481	20
482	480	482	483	486	487	485	490	492	489	13	08	496	17	00	480	16
498	(487)	(486)	(489)	(488)	489	495	496	496	492	8	25	504	7	00	484	20
484	†...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
494	489	488	489	490	491	492	492	491	491							21

† Not in good adjustment from June 11 to July 5.

NOTE.—Values in parentheses were interpolated.

JULY, 1905.

33500 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	(†)...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	501	497	502	502	495
6	497	501	501	494	496	499	495	495	500	504	501	507	499	507	508
7	504	501	497	500	499	497	497	493	494	495	497	503	501	504	508
8	505	504	503	504	504	497	494	493	500	505	508	511	513	504	506
9*	504	503	502	497	499	499	496	495	499	501	508	511	510	512	509
10*	502	501	504	502	502	501	499	499	502	506	509	(507)	(506)	(505)	(505)
11*	504	504	503	503	502	499	495	491	493	500	507	506	507	509	509
12*	500	503	503	501	504	500	495	494	499	507	506	509	508	505	507
13	502	506	506	506	505	496	490	489	501	502	501	504	508	507	507
14*	497	502	497	502	499	496	495	489	489	495	503	508	510	505	502
15	496	497	499	500	503	502	500	500	502	503	506	505	505	501	505
16	494	497	499	502	503	502	499	501	499	499	502	505	501	495	494
17*	497	498	501	502	503	501	497	498	498	502	503	501	496	490	492
18	492	495	495	498	499	502	493	497	500	501	504	503	508	505	509
19*	498	498	500	502	502	502	497	493	500	505	510	509	506	502	508
20*	502	502	503	503	503	505	501	499	505	507	515	519	520	521	517
21*	501	501	501	502	504	505	500	500	505	508	512	517	514	515	511
22	490	489	489	488	487	487	485	486	489	491	497	504	508	511	509
23	502	499	501	505	503	500	495	495	491	491	502	505	504	503	494
24	501	502	506	495	504	500	496	490	499	504	505	505	503	506	508
25	506	508	510	505	504	504	501	499	502	507	512	514	518	520	519
26	501	501	503	502	501	499	494	498	502	502	505	509	510	514	514
27	509	510	509	511	509	507	505	502	504	506	506	509	512	513	511
28	503	511	509	512	511	506	497	495	495	(496)	(497)	(497)	(496)	(497)	(498)
29*	498	499	500	502	505	504	504	505	505	504	502	501	499	503	508
30	499	501	502	506	504	504	500	495	488	488	493	500	508	518	516
31	501	502	504	506	506	508	503	502	506	507	508	512	508	509	510
Mean	500	501	502	502	502	501	497	496	499	501	505	507	507	507	507
Mean*....	500	501	501	502	502	501	498	496	500	504	508	509	508	507	507

AUGUST, 1905.

33500 γ PLUS TABULAR QUANTITIES.

1	498	501	502	507	506	505	506	501	(505)	507	507	513	517	514	518
2	482	499	486	485	502	509	494	513	506	505	520	522	516	520	517
3	507	515	508	513	519	510	515	513	504	503	507	513	517	513	509
4*	510	512	511	510	508	509	510	515	517	519	518	522	518	521	520
5	(511)	(512)	(513)	(514)	(514)	(515)	(516)	(517)	513	523	526	527	526	523	526
6	512	510	513	513	507	509	506	506	514	521	520	520	513	507	499
7	505	501	504	512	511	512	512	514	506	515	515	521	520	525	522
8	515	517	516	511	513	515	508	508	508	509	517	521	521	523	521
9*	509	509	509	509	508	507	499	493	497	500	504	508	503	507	510
10*	512	513	513	513	511	506	498	497	502	510	511	514	518	517	518
11	509	513	509	512	510	507	502	501	504	508	508	516	518	515	517
12	509	510	512	513	512	507	492	491	497	497	499	497	496	500	503
13*	503	504	506	507	507	508	499	498	502	502	500	499	505	515	512
14	502	503	505	508	504	504	500	494	493	493	495	505	505	505	504
15*	502	504	505	508	508	510	501	497	498	501	503	500	496	500	496
16*	498	501	498	507	501	504	490	499	500	504	505	505	509	510	507
17	498	499	499	500	503	505	501	496	503	505	501	503	504	505	510
18*	502	502	501	505	504	505	499	500	505	507	512	510	506	504	499
19	506	504	504	504	506	506	502	498	508	510	512	510	506	502	498
20	502	500	507	499	498	495	491	487	489	495	498	499	502	502	492
21	501	499	499	497	497	497	495	495	493	493	501	502	502	501	499
22*	504	499	498	499	499	499	497	493	497	498	503	505	500	493	492
23	501	501	500	503	500	499	489	490	501	507	506	504	504	505	505
24*	500	503	506	503	500	501	495	496	502	508	509	506	503	502	498
25	499	497	500	507	500	498	489	486	496	498	503	504	500	507	502
26	498	499	499	501	499	499	489	484	486	487	489	489	497	498	498
27	491	497	500	500	500	499	490	491	493	492	493	499	501	500	497
28	502	501	501	507	501	500	493	491	498	497	499	505	508	507	506
29	495	497	506	494	496	497	490	483	484	478	483	493	496	500	498
30	480	492	494	499	494	497	486	482	484	486	493	489	490	494	497
31*	494	496	493	494	497	497	489	485	484	483	483	484	489	493	492
Mean	502	504	504	505	504	504	498	497	500	502	505	507	507	507	506
Mean*....	503	503	504	506	504	505	498	497	500	503	505	505	505	506	504

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

† Not in good adjustment from June 11 to July 5.

JULY, 1905.

33500 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
488	488	497	498	498	492	469	473	496	...	13	37	503	22	44	459	44	5
499	500	496	499	502	502	496	502	502	500	14	34	512	7	35	488	24	6
505	498	(499)	(500)	(501)	502	505	508	506	501	15	00	508	8	00	493	15	7
505	498	493	496	497	501	506	501	497	502	13	08	515	18	17	492	23	8
502	499	499	499	499	500	500	502	501	502	13	32	515	8	00	495	20	9
(504)	505	502	503	503	503	499	503	503	503	11	00	509	21	38	497	12	10
508	501	496	494	494	497	497	498	498	501	13	28	511	8	27	490	21	11
506	505	501	502	500	498	496	496	498	502	12	00	509	22	25	489	20	12
509	498	495	495	493	493	495	493	494	500	4	20	515	8	00	489	26	13
498	499	498	499	496	494	493	493	493	498	12	29	513	8	00	489	24	14
504	499	499	498	497	496	495	495	494	500	12	41	514	0	00	493	21	15
495	498	498	500	499	500	499	494	495	499	11	40	506	0	00	494	12	16
491	494	495	495	497	497	496	495	495	497	9	45	503	14	00	490	13	17
504	494	497	503	503	503	502	502	500	500	14	44	510	1	00	492	18	18
499	(505)	(506)	(507)	507	505	504	503	501	503	11	00	510	7	49	490	20	19
508	500	498	502	502	503	502	504	502	506	14	00	521	18	00	498	23	20
506	503	500	500	503	492	491	491	492	503	12	19	518	22	00	491	27	21
500	495	494	496	499	499	498	500	502	496	14	23	513	7	00	485	28	22
499	505	486	488	505	507	503	508	501	500	15	23	511	18	17	482	29	23
509	508	506	508	503	504	508	508	507	504	16	00	509	8	00	490	19	24
521	507	505	503	501	501	500	500	500	507	13	35	520	8	00	499	21	25
510	504	504	503	506	506	506	506	509	505	14	00	514	7	00	494	20	26
503	495	499	499	498	493	497	502	497	504	13	28	516	21	00	493	23	27
(498)	498	496	498	500	498	498	496	498	500	3	26	512	8	00	495	17	28
506	504	502	501	503	500	497	497	498	502	15	00	508	22	00	497	11	29
512	510	508	505	504	500	499	499	501	502	13	41	520	10	00	488	32	30
513	516	510	511	509	504	504	503	505	507	17	00	516	1	00	501	15	31
504	502	499	500	501	500	500	500	500	502							21	
503	502	500	500	500	499	498	498	498	502							19	

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33500 γ PLUS TABULAR QUANTITIES.

515	512	508	508	508	511	502	594	484	506	12	48	519	24	00	484	35	1
511	511	515	515	516	515	509	524	518	509	11	38	524	0	32	479	45	2
506	514	509	507	518	507	515	508	505	511	5	00	519	10	00	503	16	3
509	507	506	508	510	511	513	509	510	513	14	06	523	0	00	505	18	4
514	513	510	514	513	512	514	516	515	517	11	26	527	18	00	510	17	5
511	514	513	509	504	508	515	517	526	512	10	25	523	14	38	498	25	6
522	519	507	503	506	505	510	514	514	512	13	32	525	3	23	498	27	7
516	512	509	509	509	508	508	508	508	513	14	00	523	21	00	508	15	8
509	509	506	506	508	508	509	512	513	506	14	29	511	8	12	492	19	9
518	512	510	508	507	505	506	507	508	510	13	17	518	8	00	497	21	10
515	513	516	516	514	511	508	507	509	511	13	26	518	7	26	498	20	11
503	507	511	509	507	506	506	505	504	504	4	00	513	7	25	488	25	12
504	502	504	506	506	504	503	502	501	504	13	55	516	8	00	498	18	13
505	500	505	504	504	503	502	502	502	502	4	00	508	8	14	492	16	14
497	497	500	502	503	503	503	501	500	501	6	00	510	15	00	496	14	15
507	507	506	506	506	503	503	502	500	503	14	00	510	7	35	481	29	16
506	506	505	506	507	505	505	505	504	503	14	32	514	8	00	496	18	17
498	500	498	501	504	514	(512)	510	511	505	21	00	514	16	00	498	16	18
500	493	494	497	503	503	502	495	502	503	11	00	512	17	24	490	22	19
493	493	494	498	501	501	501	501	500	497	12	41	513	8	00	487	26	20
499	502	504	506	508	507	505	502	505	501	20	00	508	8	41	491	17	21
493	491	485	498	500	502	499	501	501	498	12	06	506	17	00	491	15	22
504	496	486	495	494	497	497	502	501	500	10	00	507	7	00	489	18	23
496	499	500	499	499	499	497	499	499	501	10	40	510	7	00	495	15	24
502	497	499	497	495	493	495	497	499	498	13	58	509	8	00	486	23	25
498	496	495	494	494	495	495	493	487	494	4	00	501	8	00	484	17	26
500	499	501	500	498	497	496	495	496	497	13	00	501	0	09	486	15	27
505	501	501	497	489	483	495	491	496	499	13	19	509	20	00	489	20	28
492	495	489	492	498	496	493	492	481	492	3	00	506	18	25	477	29	29
503	497	489	494	498	496	497	495	494	493	6	29	501	0	21	479	22	30
494	495	497	496	494	495	501	497	493	492	22	00	501	11	14	481	20	31
505	504	503	503	504	504	504	503	503	503							21	
503	502	502	503	504	504	505	504	504	503							18	

NOTE.—Values in parentheses were interpolated.

SEPTEMBER, 1905.

33500 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	1 ^h	2 ^h	3 ^h
1*	493	495	495	497	500	501	496	494	494	494	494	483	487	488	490
2	488	489	492	494	496	496	490	492	494	497	496	495	494	486	492
3	491	489	495	499	498	493	491	477	476	486	489	495	491	490	491
4	495	496	499	495	493	497	491	491	495	495	500	503	498	500	495
5	500	502	503	498	499	502	491	487	482	481	480	492	496	507	510
6	505	505	503	503	502	500	492	490	493	498	496	497	496	498	501
7*	497	499	498	496	496	495	490	491	493	492	491	493	491	490	494
8*	495	496	495	493	497	494	482	480	482	483	484	489	493	493	492
9*	491	491	495	497	497	493	481	476	476	488	493	497	494	496	498
10*	496	496	497	498	498	497	484	481	476	478	486	492	492	495	496
11	493	495	496	498	498	496	486	482	483	486	494	495	499	495	492
12*	491	492	494	501	495	497	489	487	487	486	484	486	490	494	495
13*	493	496	496	497	496	495	480	476	481	482	484	487	489	487	489
14*	492	493	494	496	496	493	479	477	479	481	479	480	483	488	493
15*	488	486	489	490	492	492	486	484	487	484	490	489	490	492	488
16*	489	489	490	491	491	491	486	484	488	488	490	493	500	499	497
17	494	494	493	492	492	491	481	480	481	479	479	481	485	489	489
18	497	496	493	493	496	495	493	489	496	495	501	493	494	496	490
19	499	493	505	497	501	504	493	496	495	498	498	501	501	503	498
20	507	505	504	504	503	505	498	497	497	498	499	501	503	500	496
21
22
23
24
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30
Mean.....	495	495	496	496	497	496	488	486	487	488	490	492	493	494	494
Mean*.....	492	493	494	496	496	495	485	483	484	486	488	489	491	492	493

OCTOBER, 1905.

33500 γ PLUS TABULAR QUANTITIES.

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24	504	505	506	506	504	504	501	496	493	496	502	506	517	506	497
25	501	506	509	510	510	510	508	507	508	509	513	513	508	504	505
26	503	512	510	512	513	513	506	506	506	405	506	506	508	507	507
27	501	506	511	512	514	514	508	508	505	506	506	507	507	504	504
28	494	497	499	501	503	503	499	490	481	481	483	491	491	491	497
29	500	503	506	508	511	511	507	505	504	501	501	503	503	500	500
30	504	504	505	504	506	507	502	496	498	494	493	491	491	494	497
31	504	503	503	505	504	506	505	499	494	493	492	499	499	499	500
Mean.....	501	504	506	507	508	508	504	501	499	498	500	502	502	501	502
Mean*.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

†Not in good adjustment from September 21 to October 23.

HOURLY VALUES OF VERTICAL INTENSITY.

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SEPTEMBER, 1905.

33500 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
490	492	495	496	497	496	494	497	490	494	6	00	501	12	00	483	18	1
492	(492)	492	493	494	494	495	494	493	493	10	00	497	14	04	484	13	2
488	491	499	496	500	502	501	501	502	493	13	52	517	16	19	468	49	3
498	494	496	494	494	494	496	498	498	496	12	33	505	4	12	489	16	4
501	501	494	496	499	502	503	506	506	497	14	47	512	10	45	478	34	5
499	495	495	494	493	495	495	496	498	497	2	00	505	8	00	490	15	6
489	487	489	488	489	491	491	493	495	492	2	00	499	17	00	487	12	7
492	493	491	489	490	488	489	493	492	490	4	54	498	8	50	480	18	8
492	487	492	491	486	488	490	493	495	491	11	34	498	7	16	474	24	9
496	494	494	492	497	496	495	495	495	492	4	00	498	9	14	475	23	10
493	491	492	493	492	490	489	486	490	492	13	00	499	7	26	479	20	11
496	496	499	496	496	496	495	493	494	493	4	00	501	11	00	484	17	12
492	496	497	497	496	495	493	492	492	491	5	28	497	8	00	476	21	13
489	486	492	493	492	493	491	491	489	488	5	00	496	7	37	475	21	14
486	491	492	(494)	497	496	494	492	490	490	20	00	497	8	00	484	13	15
496	(496)	(495)	496	496	495	495	495	494	493	13	00	500	8	00	484	16	16
490	494	494	495	497	499	499	500	496	490	22	23	504	10	00	479	25	17
494	496	491	484	477	493	495	496	496	493	13	35	512	20	12	477	35	18
499	503	503	502	498	499	498	501	505	500	6	27	508	7	16	486	22	19
494	493	487	488	487	494	505	497	496	498	14	14	514	18	40	482	32	20
...	21
...	22
...	23
...	24
...	25
...	26
...	27
...	28
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...	30
493	493	494	493	493	495	495	495	495	493							22	
492	492	494	493	494	493	493	493	493	491							18	

OCTOBER, 1905.

33500 γ PLUS TABULAR QUANTITIES.

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...	21
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...	23
488	506	504	501	501	501	520	499	500	24
503	501	496	495	495	493	493	493	495	500	13	00	508	9	00	493	15	25
506	507	506	502	501	497	498	497	497	506	11	13	515	00	01	495	20	26
503	500	501	500	496	494	494	496	503	504	6	03	514	22	00	494	20	27
504	505	505	502	501	500	496	493	490	505	5	00	514	24	00	490	24	28
502	501	504	505	502	501	499	497	497	496	18	52	506	10	31	478	28	29
500	501	504	504	505	503	501	499	498	503	6	00	511	24	00	498	13	30
498	500	501	504	504	503	504	502	500	500	6	00	507	12	00	491	16	31
497	(498)	497	499	499	499	500	500	499	500	6	00	506	10	30	490	16	31
502	502	502	501	500	499	498	497	497	502							19	
...	

NOTE.—Values in parentheses were interpolated.

NOVEMBER, 1905.

33500 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	501	500	500	501	502	504	502	503	501	495	496	499	497	498	496
2*	501	501	501	502	503	503	501	499	495	492	493	497	495	494	496
3*	503	501	500	500	499	501	499	499	497	499	503	505	504	500	502
4	511	509	508	508	507	506	503	504	508	508	509	512	508	508	505
5	516	518	519	519	520	518	517	514	515	518	520	517	511	503	511
6	519	519	519	520	519	519	517	516	508	510	516	521	519	518	518
7	520	522	519	517	521	517	517	515	514	514	515	515	516	520	521
8	521	521	525	525	524	523	521	516	514	516	515	520	521	520	524
9*	520	522	523	524	525	524	522	515	512	509	510	512	512	512	518
10	519	520	521	523	527	528	522	519	518	519	519	519	520	520	522
11*	509	510	512	513	513	512	507	503	499	499	499	500	502	503	505
12	509	512	512	517	511	531	511	500	502	509	499	502	510	511	508
13	531	530	526	529	530	530	533	529	525	513	522	519	515	515	511
14	501	500	505	503	505	507	508	502	496	495	491	492	494	499	501
15	507	507	508	506	507	511	510	507	504	499	515	517	506	500	504
16	511	521	500	512	518	508	514	507	509	516	518	516	511	511	510
17	518	518	516	516	523	523	520	514	515	513	509	512	512	514	520
18	522	521	523	519	521	520	521	518	516	514	518	520	519	521	522
19	521	519	516	517	515	516	516	511	505	505	507	512	513	515	515
20*	526	527	525	525	525	524	524	522	519	513	509	509	514	517	521
21	523	524	522	523	520	516	517	514	512	511	512	512	520	526	524
22	529	531	535	529	528	528	526	522	521	521	524	531	534	531	529
23	530	533	530	531	530	531	526	(519)	512	511	512	517	521	526	533
24	531	531	533	532	531	536	533	526	522	519	514	518	520	524	529
25*	526	526	529	528	528	527	530	522	517	514	514	516	515	515	517
26	523	523	527	527	527	528	529	528	528	520	523	523	524	522	525
27	518	519	521	525	523	528	526	518	509	503	502	502	499	513	519
28*	515	513	512	516	519	520	523	519	511	511	508	507	508	509	510
29*	512	513	512	515	516	518	520	517	512	510	508	506	505	500	503
30*	514	514	514	514	515	516	517	515	512	512	512	514	513	513	510
Mean.....	517	518	517	518	518	519	518	514	511	511	510	512	512	513	514
Mean*.....	513	513	513	514	514	515	514	511	507	505	505	506	506	506	508

DECEMBER, 1905.

33500 γ PLUS TABULAR QUANTITIES.

1	520	519	519	520	520	519	519	519	516	513	515	516	514	514	514
2	526	524	524	523	518	518	517	516	510	507	500	500	502	497	503
3	523	523	523	521	520	518	519	522	519	508	500	507	501	507	508
4	522	522	525	523	524	518	521	508	510	513	513	517	514	517	522
5	527	527	526	525	524	523	524	523	516	511	509	504	506	511	516
6*	525	525	525	524	524	523	523	518	513	509	511	510	513	514	518
7*	524	525	526	525	525	523	524	521	516	516	516	514	513	515	518
8*	522	526	528	528	526	526	526	525	524	522	521	521	518	522	523
9	525	526	527	527	527	527	525	525	521	517	514	513	511	510	513
10*	518	518	518	518	518	519	513	514	510	505	507	509	510	511	514
11	515	515	515	515	516	518	518	514	510	507	507	506	509	509	511
12	514	510	515	516	512	515	517	514	512	514	509	508	510	510	521
13	513	523	522	524	526	525	524	523	517	511	498	495	508	511	517
14	523	524	523	523	523	526	528	524	519	515	516	510	517	513	519
15*	513	514	515	514	515	517	518	516	513	509	504	505	511	512	512
16*	516	516	517	516	518	518	522	522	514	508	507	505	502	503	508
17	519	515	517	517	518	520	521	521	517	520	518	513	512	513	515
18*	523	522	522	521	519	518	521	522	519	514	514	507	506	510	517
19	525	524	524	523	521	522	521	516	516	517	514	510	513	514	515
20	524	524	528	528	521	522	520	516	515	511	511	515	520	526	522
21	530	533	533	541	529	528	528	525	521	520	518	518	517	520	528
22*	518	519	518	521	518	518	518	517	513	509	506	509	510	514	516
23	519	521	522	523	521	521	522	520	513	508	507	508	508	512	517
24	520	522	524	523	522	521	521	516	511	508	506	509	516	521	525
25	524	524	524	525	524	524	523	516	508	501	499	498	504	508	511
26*	521	519	523	525	525	525	526	525	521	515	511	512	513	516	521
27*	526	525	525	525	527	526	530	529	522	520	518	523	524	524	524
28	523	523	523	524	526	527	529	526	518	513	512	510	515	518	519
29	515	516	516	518	518	518	519	517	511	507	505	506	510	515	515
30	521	518	517	515	516	519	518	519	516	510	510	512	516	516	518
31	528	527	526	523	522	521	522	519	517	520	520	524	527	527	529
Mean.....	521	522	522	522	521	521	522	520	515	512	510	510	512	514	517
Mean*.....	521	521	522	522	522	521	522	521	516	513	512	512	512	514	517

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

NOVEMBER, 1905.

33500 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum		Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	
(494)	493	497	498	499	499	500	500	500	499	6	00	504	16	08	493	1
499	498	496	497	496	496	498	500	500	498	6	00	503	10	00	492	2
501	500	501	500	500	500	503	502	504	501	12	00	505	9	00	497	3
506	505	505	504	503	503	504	508	511	507	13	30	515	7	24	503	4
515	517	513	512	508	507	505	513	514	514	11	00	520	14	19	501	5
(519)	520	517	516	510	512	515	511	509	516	3	35	524	9	25	506	6
522	524	517	517	509	508	511	513	514	517	17	00	524	20	32	508	7
526	524	513	521	521	520	518	516	517	520	16	00	526	17	52	512	8
525	526	525	524	521	519	517	515	515	519	17	00	526	11	14	509	9
524	520	519	518	513	512	511	506	507	519	6	00	528	23	00	506	10
507	511	511	511	509	509	508	507	504	507	5	00	513	11	00	499	11
520	523	523	523	524	523	525	534	530	515	23	00	534	10	48	498	12
504	505	506	503	503	501	502	504	502	516	11	19	534	21	00	501	13
502	502	501	502	499	495	498	505	499	500	6	09	510	11	00	491	14
516	488	502	509	508	520	519	517	511	508	21	00	520	16	54	484	15
521	517	516	522	519	519	518	520	516	515	10	26	530	3	00	500	16
522	521	520	522	521	520	522	522	522	518	5	00	523	11	19	507	17
522	521	520	520	517	518	522	522	521	520	3	28	524	21	25	513	18
515	516	519	520	519	518	520	520	521	515	24	00	521	10	26	504	19
522	522	522	518	516	518	519	519	521	520	2	00	527	11	29	508	20
521	521	519	519	519	522	526	523	524	520	14	00	526	10	27	510	21
529	528	526	525	521	520	523	525	526	527	13	00	534	21	30	504	22
531	531	529	526	525	524	524	526	526	525	15	00	533	9	39	509	23
527	526	525	525	524	522	521	521	520	525	6	24	553	11	00	514	24
523	524	525	526	523	520	519	517	519	522	7	00	530	13	32	513	25
529	521	522	521	522	520	519	519	517	524	8	30	529	24	00	517	26
520	514	516	517	515	513	514	512	512	515	6	29	530	13	00	499	27
517	511	511	513	513	512	512	511	511	513	7	00	523	11	41	505	28
508	508	510	513	510	515	514	511	511	511	7	00	520	14	00	500	29
514	514	515	515	516	518	517	517	519	515	24	00	519	15	00	510	30
517	515	515	515	513	513	514	515	514	515							20
511	511	511	512	510	511	511	510	510	510							14

DECEMBER, 1905.

33500 γ PLUS TABULAR QUANTITIES.

518	517	513	517	518	520	521	522	524	518	24	00	524	18	00	513	11	1
510	506	510	510	517	518	520	520	521	513	0	09	527	14	00	497	30	2
508	516	515	516	515	514	518	521	521	515	1	00	523	11	20	500	23	3
521	521	521	522	522	521	520	520	521	519	3	17	529	8	35	504	25	4
519	518	518	518	518	518	519	522	523	519	1	00	527	12	00	504	23	5
523	520	524	520	519	519	519	521	523	519	1	00	525	10	00	509	16	6
522	523	523	522	521	520	518	518	519	520	3	00	526	13	24	513	13	7
522	522	524	524	521	521	522	522	523	523	4	00	528	13	00	518	10	8
516	516	516	516	516	514	512	512	513	518	6	00	527	14	00	510	17	9
518	516	518	519	518	518	515	513	513	515	6	00	519	10	00	505	14	10
514	516	516	517	517	516	517	523	515	514	22	38	525	12	00	506	19	11
522	518	513	517	519	522	518	527	509	515	23	00	527	13	32	508	19	12
516	519	523	528	530	528	524	524	523	519	20	00	530	12	00	495	35	13
523	512	515	519	518	518	509	513	512	518	7	00	528	12	05	509	19	14
511	512	515	513	513	516	517	517	515	513	7	00	518	11	34	502	16	15
514	518	518	517	519	520	522	520	519	515	7	16	523	13	30	501	22	16
518	519	519	518	518	518	521	522	520	518	7	48	524	13	41	509	15	17
520	515	515	519	519	520	523	524	524	518	23	13	525	13	00	506	19	18
524	525	523	518	516	519	524	527	524	520	1	06	528	12	17	509	19	19
526	526	518	524	520	526	525	528	527	522	3	47	532	11	00	511	21	20
528	518	516	516	513	513	513	512	515	522	3	00	533	12	19	505	28	21
518	518	518	518	518	516	516	517	516	516	4	00	521	11	23	506	15	22
521	521	522	522	521	519	520	524	515	518	7	53	527	11	00	507	20	23
525	529	528	529	527	525	525	523	522	521	17	21	530	11	00	506	24	24
516	529	522	521	523	519	516	515	515	516	17	00	529	12	00	498	31	25
525	530	532	533	531	531	532	531	528	524	19	00	533	11	00	511	22	26
528	529	531	532	531	530	530	527	523	526	19	00	532	11	00	518	14	27
519	511	514	515	519	518	519	519	516	519	7	00	529	12	00	510	19	28
516	519	522	523	526	525	526	526	524	517	21	45	527	11	00	505	22	29
518	518	527	529	531	530	528	528	528	520	20	00	531	11	00	510	21	30
529	522	522	521	520	520	519	520	519	523	16	04	530	9	36	517	13	31
520	519	520	520	520	520	520	521	520	518							20	
520	520	522	522	521	521	521	521	520	519							16	

NOTE.—Values in parentheses were interpolated.

JANUARY, 1906.

33500 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2*	520	518	516	515	515	514	515	509	503	(506)	(507)	(510)	(513)	(517)	(518)
3	525	520	518	516	515	514	512	512	507	503	500	500	504	507	508
4*	518	517	517	515	511	510	512	513	509	507	500	503	500	504	509
5	509	509	509	509	509	509	508	508	504	499	494	497	501	507	505
	512	512	512	512	512	511	510	511	507	504	502	502	511	511	514
6*	511	513	515	515	515	514	514	513	506	502	500	500	506	508	512
7	499	498	498	498	497	492	494	493	489	484	483	481	482	488	493
8	509	509	508	508	507	507	507	507	502	496	496	498	500	509	512
9	504	507	507	507	506	506	507	506	502	497	492	494	498	499	505
10*	502	502	505	507	506	507	507	504	497	495	492	492	500	506	508
11	507	506	505	507	507	506	509	504	495	490	491	493	495	499	504
12	504	505	505	505	507	506	507	505	497	489	488	494	498	506	512
13	507	503	506	505	506	507	512	511	499	493	496	497	502	508	512
14	513	510	508	507	507	512	512	508	502	495	495	497	509	515	516
15	518	516	509	509	508	510	513	507	505	504	501	506	506	509	517
16*	521	518	518	517	516	516	518	514	510	508	504	512	513	516	520
17*	524	522	521	520	519	519	518	515	514	513	511	512	517	518	521
18	527	526	524	523	521	520	520	515	502	501	502	504	493	505	509
19	527	529	529	526	525	520	519	516	511	506	507	509	509	515	522
20	531	531	529	530	530	530	528	523	516	516	512	520	529	536	541
21	534	536	535	536	536	532	533	529	523	519	510	510	514	528	535
22*	526	527	529	530	530	529	528	523	519	515	516	518	522	526	532
23*	523	526	526	528	528	527	525	521	512	504	499	501	509	516	523
24	524	524	524	526	526	527	527	524	519	512	508	510	513	517	523
25*	525	524	524	524	526	526	526	520	512	506	507	508	513	515	517
26	522	523	523	524	528	529	531	526	515	512	512	513	513	516	522
27	517	516	521	522	525	524	527	520	513	512	512	517	511	510	522
28	523	521	520	524	525	525	526	525	518	510	511	520	520	521	520
29*	527	526	524	522	520	521	523	519	514	508	513	515	511	512	515
30	522	523	522	522	521	522	525	521	517	512	516	525	524	525	527
31	522	521	524	523	520	519	520	519	518	514	515	520	518	516	521
Mean.....	518	517	517	517	517	516	517	514	508	504	503	506	508	512	517
Mean*.....	519	519	519	519	518	518	518	515	510	505	504	506	510	513	516

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1	532	532	532	530	529	529	538	535	524	519	513	516	516	524	521
2*	534	534	530	529	529	531	529	527	524	517	516	517	518	525	529
3	532	533	527	526	530	528	529	525	520	511	506	507	514	522	524
4*	533	532	532	532	531	531	531	529	527	525	521	521	526	525	528
5	526	526	531	531	531	531	531	530	522	515	510	(511)	(515)	(518)	(521)
6	530	536	529	529	529	532	530	534	525	519	516	516	526	526	530
7	529	526	529	531	531	532	533	528	525	518	512	516	525	525	529
8*	528	530	529	532	532	533	532	528	524	519	511	507	517	528	533
9	527	524	528	528	531	530	532	531	525	517	518	523	526	525	526
10*	526	528	528	530	532	532	533	538	524	522	524	526	532	534	538
11*	527	520	527	528	527	523	528	530	528	527	524	519	523	520	520
12	524	521	520	520	519	520	525	525	523	516	509	509	516	518	522
13*	526	522	522	521	521	523	526	523	518	515	512	518	521	524	525
14*	526	520	519	519	519	518	524	524	522	516	510	513	511	515	518
15	524	522	519	521	519	518	520	524	522	(515)	(513)	(509)	(511)	(512)	(514)
16	528	528	527	525	525	523	525	525	520	522	522	529	531	528	527
17*	535	533	533	532	528	528	531	531	530	524	524	524	525	530	531
18	536	535	535	535	532	529	528	527	526	523	521	522	528	528	532
19	538	534	539	541	541	538	535	534	528	518	509	507	517	530	537
20	537	539	538	536	536	537	537	536	533	532	533	533	534	535	536
21*	532	531	534	534	537	536	538	532	525	521	514	518	523	525	530
22*	522	524	525	521	522	524	528	526	520	515	512	512	515	518	526
23	530	528	529	525	529	532	531	529	520	516	514	513	511	515	524
24	531	528	528	527	533	527	535	530	521	525	519	519	515	525	527
25	535	532	529	527	527	528	529	528	528	521	520	517	521	514	521
26	539	529	524	521	522	529	530	529	521	516	514	517	518	515	521
27	536	533	530	529	526	526	527	527	524	519	516	514	518	521	527
28	538	535	533	536	530	532	537	533	524	518	515	512	519	526	528
Mean.....	531	529	529	528	528	529	530	529	524	519	516	517	520	523	527
Mean*.....	529	527	528	528	528	528	530	529	524	520	517	518	521	524	528

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF VERTICAL INTENSITY.

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33500 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
(521)	521	523	524	528	524	526	526	528	517	20	00	528	9	00	503	25	1
512	515	516	516	518	517	517	521	520	513	0	00	528	11	20	499	29	2
511	512	516	515	512	512	512	511	510	511	17	34	517	13	00	500	17	3
506	511	516	517	517	519	516	515	515	509	21	05	524	11	25	491	33	4
514	514	515	514	510	508	510	510	511	510	18	00	515	11	39	500	15	5
513	510	511	509	508	503	501	501	500	508	5	00	515	24	00	500	15	6
500	516	517	517	514	511	510	510	509	499	18	00	517	12	00	481	36	7
511	517	517	516	513	512	509	508	505	508	16	45	517	11	00	496	21	8
508	515	515	514	510	508	506	503	502	505	17	00	515	11	00	492	23	9
514	515	524	524	520	516	513	510	508	507	18	00	524	11	35	491	33	10
508	512	516	515	515	512	511	508	504	505	18	00	516	12	31	486	30	11
516	516	519	519	517	516	515	515	511	507	18	00	519	11	00	488	31	12
520	524	525	521	519	518	516	516	515	510	18	00	525	10	00	493	32	13
520	525	526	523	523	523	522	521	520	513	18	00	526	11	20	494	32	14
518	515	514	514	519	522	521	521	521	513	21	00	522	11	00	501	21	15
519	519	520	521	522	523	524	526	525	518	23	00	526	11	00	504	22	16
521	521	523	523	524	524	524	526	528	520	24	00	528	11	00	511	17	17
512	513	519	521	521	520	524	526	525	516	23	00	526	13	14	490	36	18
526	529	529	529	529	528	529	530	530	522	2	40	534	9	46	503	31	19
550	538	536	534	534	533	534	534	534	530	16	00	550	11	00	512	38	20
538	537	537	534	532	530	530	528	528	529	16	00	538	11	00	510	28	21
533	534	534	531	529	525	524	523	524	526	15	15	534	10	00	515	19	22
526	528	527	530	530	530	529	526	526	522	20	00	530	11	32	499	31	23
525	533	533	530	532	529	529	526	526	524	17	00	533	11	00	508	25	24
521	527	528	530	531	530	529	527	525	522	20	00	531	10	00	506	25	25
523	532	532	528	525	525	527	525	524	523	18	00	532	12	25	510	22	26
523	528	529	529	530	530	530	526	528	522	20	00	530	11	57	505	25	27
521	527	533	533	531	531	531	529	529	524	18	00	533	10	21	507	26	28
519	525	526	524	525	526	526	526	525	520	0	00	529	10	00	508	21	29
526	524	523	524	524	524	524	524	524	523	15	00	527	10	00	512	15	30
528	538	524	532	537	538	538	535	531	525	21	21	539	9	28	508	31	31
519	522	523	523	523	522	521	520	520	516							26	
518	520	522	522	522	521	520	520	520	516							24	

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527	532	531	533	531	531	529	529	530	528	7	00	538	11	30	513	25	1
532	536	536	536	536	535	533	531	532	529	18	00	536	11	00	516	20	2
521	533	533	533	533	533	532	533	533	526	24	00	533	11	00	506	27	3
534	535	535	531	527	527	526	524	525	529	17	00	535	12	00	521	14	4
(525)	530	527	525	522	521	521	522	522	523	5	44	532	11	19	508	24	5
536	537	538	537	535	530	530	532	528	530	18	00	538	11	44	516	22	6
532	536	533	533	534	532	530	530	530	528	17	00	536	11	00	512	24	7
534	540	538	536	535	531	530	528	531	529	17	00	540	12	00	507	33	8
530	535	537	537	536	536	530	529	529	529	18	00	537	10	00	517	20	9
542	538	538	538	536	535	533	533	530	532	16	00	542	10	00	522	20	10
528	529	531	531	531	531	529	528	527	526	19	00	531	12	00	519	12	11
521	526	525	527	531	533	533	532	531	523	22	00	533	11	00	509	24	12
523	523	526	530	530	529	529	529	528	524	20	00	530	11	00	512	18	13
519	519	519	520	522	523	525	525	526	520	0	00	528	11	36	508	20	14
(517)	518	517	518	523	531	532	532	530	520	23	00	532	(12 00)	(509)	23	15	
533	536	536	532	531	535	532	535	537	529	24	00	537	9	00	520	17	16
530	532	534	536	536	534	533	533	534	531	23	19	540	12	00	524	16	17
534	535	535	536	531	525	519	526	539	530	24	00	539	11	00	521	18	18
543	540	543	540	539	536	538	538	539	533	4	18	544	11	25	503	41	19
542	542	543	542	539	537	535	534	532	537	18	00	543	10	00	532	11	20
533	533	531	531	531	531	524	523	522	529	7	00	538	11	00	514	24	21
534	536	539	537	535	534	529	530	530	526	18	00	539	11	21	512	27	22
527	536	536	536	536	536	534	533	531	527	19	00	536	13	00	511	25	23
533	525	519	530	529	536	522	529	535	527	7	15	539	17	53	515	24	24
524	529	535	532	536	533	533	539	532	528	22	32	553	11	37	505	48	25
532	537	541	541	541	540	540	537	536	529	17	56	542	13	44	502	40	26
526	530	536	528	532	537	543	539	538	528	22	00	543	12	00	514	29	27
535	538	540	542	540	538	539	535	543	532	24	00	543	12	15	510	33	28
530	533	533	533	533	532	531	531	531	528	528						24	
531	532	533	533	532	531	529	528	528	527							20	

NOTE.—Values in parentheses were interpolated.

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33500 γ PLUS TABULAR QUALITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	542	540	537	537	534	534	535	532	529	528	523	521	521	522	521
2*	531	531	531	527	526	527	530	530	528	530	531	528	528	527	529
3	532	530	529	528	528	527	527	526	525	523	525	527	529	530	534
4	539	536	534	534	531	529	528	528	526	526	529	529	531	535	538
5	539	538	545	536	534	533	532	530	525	522	517	521	528	531	532
6	531	531	533	530	532	532	532	531	522	524	521	520	526	529	528
7	537	535	539	538	539	538	539	534	526	522	521	522	524	530	535
8	536	536	536	537	532	532	531	527	523	518	521	526	530	533	540
9	532	532	533	535	535	537	535	528	518	513	512	519	525	530	532
10*	533	532	536	536	533	534	533	526	519	518	518	520	528	534	536
11*	528	528	528	530	530	529	531	528	523	519	519	520	521	526	531
12	523	522	520	522	523	523	523	519	512	510	511	514	519	521	528
13	526	524	522	524	524	526	526	522	514	509	509	506	516	522	523
14	526	526	525	522	525	521	522	521	516	514	510	512	512	513	514
15	525	521	520	520	522	524	527	527	525	525	526	527	526	529	529
16	527	524	523	520	519	520	522	520	518	518	519	521	522	524	523
17	525	522	521	518	514	513	517	517	514	517	518	516	517	515	512
18	518	517	510	512	516	513	509	508	507	505	503	506	506	511	509
19*	521	521	520	518	517	516	515	511	509	509	512	514	519	518	516
20*	520	518	518	517	514	515	512	508	502	503	504	510	511	515	518
21*	512	512	513	514	514	514	513	508	507	508	514	518	521	525	526
22*	516	516	515	514	512	511	509	507	508	510	514	515	515	516	516
23	514	511	513	512	514	514	513	512	514	516	516	517	519	520	519
24	517	516	517	516	515	515	511	515	518	518	520	523	522	524	528
25	518	515	515	520	519	519	521	515	515	512	516	516	516	520	521
26	519	519	519	517	516	519	518	514	508	506	510	508	506	506	509
27	516	515	516	515	518	519	517	517	517	513	511	511	508	510	511
28*	518	516	516	518	518	519	513	509	506	504	504	502	504	510	512
29*	516	516	516	514	517	517	515	512	512	514	514	516	515	520	521
30*	518	518	518	516	515	516	514	512	512	512	512	517	517	518	523
31	517	516	517	515	513	517	516	516	516	516	520	525	523	521	519
Mean.....	525	524	524	523	523	523	522	520	517	516	516	518	520	522	524
Mean*.....	521	521	521	520	520	520	518	515	513	513	514	516	518	521	523

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33500 γ PLUS TABULAR QUANTITIES.

1*	521	520	518	516	514	511	511	514	515	516	515	516	516	520	523
2	519	519	519	517	517	517	514	513	510	509	511	513	516	515	515
3	543	543	544	543	545	544	541	538	539	541	541	542	543	544	540
4	538	540	543	543	544	540	536	534	532	530	531	533	536	535	542
5*	533	535	536	538	538	538	535	533	533	533	534	537	538	537	536
6*	531	534	535	537	536	536	533	529	528	526	526	529	536	535	536
7	530	532	534	535	537	538	533	528	523	525	527	525	525	530	534
8	533	533	535	537	539	539	536	538	535	535	535	541	540	541	535
9	529	530	529	529	537	544	539	529	532	530	524	529	534	542	543
10	535	529	531	536	538	540	536	537	533	531	532	536	541	539	537
11	536	531	532	537	537	540	539	534	534	535	538	546	542	546	547
12	534	533	533	535	538	539	540	536	532	529	528	535	539	538	537
13*	537	537	535	535	536	540	539	538	535	533	532	537	539	536	533
14*	539	538	537	537	537	538	538	535	536	534	529	525	524	529	533
15*	534	534	534	533	534	533	534	533	535	538	538	538	533	534	534
16	537	537	537	536	535	536	532	530	536	538	539	542	545	545	542
17	533	534	534	535	535	536	535	536	539	541	541	542	546	545	545
18	537	539	540	539	539	537	534	532	531	533	535	537	544	545	544
19*	537	539	538	540	541	539	534	529	528	529	534	535	541	544	545
20*	541	543	544	545	545	543	538	539	538	542	540	540	543	544	545
21*	536	537	538	542	543	542	538	530	530	529	530	532	536	538	533
22	526	528	533	534	536	537	540	539	536	534	534	531	531	530	537
23	535	537	540	542	541	541	538	539	538	536	534	542	544	544	544
24	536	535	535	538	541	542	545	548	545	542	542	542	539	545	549
25	535	541	538	539	542	544	544	543	542	542	535	538	541	543	543
26	540	540	540	541	543	542	541	543	543	543	542	538	538	536	536
27*	537	534	536	537	537	538	536	542	548	545	544	540	538	538	541
28	537	536	537	535	537	538	535	539	541	543	544	540	545	548	542
29	536	534	534	535	536	536	535	537	540	545	540	541	537	536	529
30	532	533	528	528	529	527	527	530	532	535	535	535	536	539	534
Mean.....	534	534	535	536	537	537	535	534	534	534	534	535	537	538	538
Mean*.....	535	535	535	536	536	536	534	532	533	532	533	533	535	536	536

*The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF VERTICAL INTENSITY.

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33500 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum		Minimum		Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	h	m	γ	
530	524	527	528	529	531	534	534	534	530	0	17	548	12	20	1
529	533	533	535	537	537	536	536	536	531	20	00	537	5	00	2
533	533	535	534	538	536	534	527	530	530	19	43	541	22	29	3
541	546	542	536	537	537	536	541	540	535	17	16	548	8	24	4
534	533	535	535	534	533	532	531	531	532	2	55	546	11	00	5
529	531	534	531	527	525	517	526	528	528	18	00	534	11	39	6
539	542	544	546	543	540	539	536	543	535	19	00	546	10	39	7
542	540	537	542	540	541	543	538	535	534	22	00	543	10	00	8
538	539	539	538	538	538	535	534	535	531	6	08	539	11	00	9
538	537	542	541	538	536	533	530	531	532	18	00	542	11	00	10
535	532	531	531	531	531	528	523	523	527	16	00	535	11	00	11
530	529	528	523	523	531	530	533	529	523	23	29	534	10	00	12
525	527	528	528	532	536	535	531	527	523	21	31	538	12	06	13
513	518	525	532	528	531	531	531	530	522	19	00	532	11	00	14
531	532	531	532	531	531	531	531	529	527	17	00	532	3	08	15
525	524	521	518	519	519	520	522	526	521	0	00	529	20	45	16
513	518	516	512	517	517	516	517	517	517	0	00	526	19	00	17
512	515	513	513	516	518	518	519	520	512	24	00	520	8	50	18
518	522	522	521	520	519	519	520	519	517	18	00	522	10	00	19
521	519	517	517	516	514	514	514	514	514	16	00	521	9	00	20
529	529	529	526	522	520	518	517	517	518	16	00	529	9	00	21
516	521	521	521	520	520	518	517	515	515	17	30	522	7	42	22
518	519	524	524	524	519	519	518	518	517	18	00	524	2	00	23
526	525	522	523	517	517	516	522	521	519	14	21	530	7	00	24
521	529	531	531	531	530	522	522	521	521	17	32	533	10	00	25
509	513	517	520	520	520	518	516	514	514	20	28	521	10	00	26
513	516	518	518	515	515	517	517	519	515	7	09	520	13	00	27
510	511	517	520	522	521	518	518	517	513	20	00	522	12	00	28
522	524	523	521	523	523	522	520	520	518	17	00	524	8	00	29
523	523	519	519	519	518	519	519	520	517	15	00	523	8	00	30
521	523	523	523	523	523	523	522	524	520	12	00	525	5	00	31
525	527	527	527	527	527	526	525	525	523						19
524	525	525	525	525	524	522	521	521	520						16

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526	526	522	522	523	522	521	521	521	519	16	00	526	6	00	511	15	1
512	529	527	527	532	532	533	536	542	521	24	00	542	10	00	509	33	2
542	534	531	526	527	528	533	536	537	539	4	53	545	19	00	526	19	3
544	535	532	530	529	531	528	531	530	535	4	53	545	22	00	528	17	4
535	533	532	532	531	529	527	527	529	534	6	00	538	22	00	527	11	5
533	533	533	534	533	532	530	530	530	532	4	00	537	11	00	526	11	6
533	531	534	536	536	534	532	532	532	532	5	38	538	9	00	523	15	7
536	532	532	535	534	532	531	530	530	535	13	44	549	15	40	521	28	8
540	532	534	536	533	536	533	531	531	534	6	03	550	11	00	524	26	9
536	533	530	539	536	537	535	536	534	535	13	00	541	18	00	530	11	10
544	543	540	541	541	541	539	538	536	539	14	08	547	1	33	530	17	11
536	536	536	539	540	542	542	540	537	536	21	00	542	11	00	528	14	12
533	536	537	536	538	538	540	543	540	537	23	00	543	11	00	532	11	13
532	534	535	535	535	536	536	535	535	534	6	16	539	12	34	523	16	14
533	533	533	534	534	534	534	536	537	535	12	12	541	3	12	533	8	15
537	534	532	532	531	531	531	532	533	536	13	00	545	8	00	530	15	16
544	537	536	537	536	536	534	534	535	538	13	00	546	0	00	533	13	17
539	535	533	537	536	531	533	536	537	537	14	00	545	22	06	531	14	18
544	541	541	541	540	540	540	541	541	539	14	42	546	8	23	527	19	19
543	544	541	540	537	536	538	537	536	541	5	00	545	21	13	535	10	20
536	536	535	537	535	533	532	532	532	535	5	00	543	10	00	529	14	21
537	534	536	540	537	541	540	537	537	535	6	40	541	1	15	525	16	22
538	528	532	538	533	535	533	536	536	538	12	24	546	17	00	528	18	23
541	542	541	543	537	537	540	539	540	541	7	17	551	2	10	534	17	24
540	538	540	542	542	542	540	538	541	540	7	08	545	0	40	534	11	25
536	537	537	542	543	542	541	540	538	540	8	41	543	15	32	534	9	26
536	534	536	538	540	540	540	539	539	539	9	10	549	1	28	534	15	27
529	533	534	531	536	532	541	531	539	538	13	46	555	15	40	520	35	28
530	529	527	531	536	534	534	535	533	535	9	52	545	15	44	528	17	29
533	528	527	531	535	535	536	534	533	532	14	00	539	17	55	526	13	30
536	534	534	535	535	535	535	535	535	535							16	
535	535	534	535	535	534	534	534	534	534							13	

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33500 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	532	532	530	529	528	527	524	526	529	532	535	538	538	537	534
2	532	531	531	531	530	529	528	534	540	540	541	541	540	536	533
3*	532	531	531	530	530	529	527	528	525	526	532	536	536	534	535
4*	532	532	533	533	533	531	529	532	534	533	532	531	533	535	535
5*	531	534	533	534	534	531	529	531	536	537	535	532	530	528	528
6*	531	532	534	532	534	531	524	525	527	532	534	536	536	538	533
7	527	530	533	534	535	535	532	530	531	531	535	533	535	536	538
8	530	530	533	534	537	538	531	531	532	534	537	536	535	536	537
9	516	514	514	517	521	521	518	514	516	515	517	514	517	519	518
10*	516	516	517	519	522	522	522	517	514	512	511	512	514	519	524
11	517	516	516	518	520	526	517	520	517	518	517	515	518	521	521
12	517	517	517	516	518	522	521	520	521	526	517	522	519	521	519
13	528	527	526	526	526	530	530	535	534	532	530	530	526	522	523
14	521	523	524	526	528	525	523	527	533	539	542	541	542	540	537
15	530	530	540	523	530	512	532	540	547	552	554	549	554	545	541
16	537	538	538	535	536	536	531	535	542	547	550	554	555	552	549
17	540	542	540	540	539	536	534	539	546	554	554	550	548	550	550
18	536	536	538	538	539	539	535	535	539	545	548	554	556	556	552
19	535	534	537	542	538	535	530	532	530	533	530	536	536	541	543
20	532	535	549	549	543	543	536	529	526	535	539	536	537	544	552
21	534	536	540	544	545	541	532	529	526	529	534	537	543	550	549
22	534	535	537	541	541	540	538	535	535	539	546	547	549	555	552
23	535	534	536	538	541	541	539	533	533	534	537	539	543	545	546
24*	534	537	537	538	540	544	542	537	534	539	545	548	550	553	552
25*	534	538	537	539	544	542	537	543	543	547	555	555	553	549	551
26	537	535	536	536	539	539	535	537	537	540	540	541	544	548	547
27	533	532	530	528	528	534	536	535	528	530	540	538	537	545	538
28	537	533	537	533	531	534	532	537	535	540	546	547	544	543	540
29*	536	535	534	532	531	530	526	525	518	519	522	526	532	535	536
30*	534	532	529	529	529	528	522	523	528	530	534	538	539	540	542
31	533	531	530	529	528	527	523	523	530	534	535	544	552	554	549
Mean.....	531	531	532	532	533	532	530	530	531	534	536	537	538	540	539
Mean*.....	531	532	532	532	532	532	528	529	529	531	534	535	536	537	537

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1	534	534	531	531	530	527	522	523	525	533	538	544	542	546	539
2	526	525	531	535	539	531	(532)	(533)	(534)	(536)	(537)	(539)	(540)	(543)	(545)
3	543	540	536	537	537	535	533	531	531	529	529	534	539	543	544
4	537	536	540	534	534	531	523	522	525	527	529	529	535	539	545
5*	535	534	535	534	535	533	528	526	528	527	532	534	541	542	542
6*	525	527	529	531	533	534	526	519	519	523	528	529	530	531	539
7	527	526	528	530	532	534	529	525	522	531	537	537	539	538	541
8	531	530	530	532	532	529	530	524	529	532	536	534	538	538	536
9	534	530	533	535	539	536	531	530	538	540	542	545	545	544	542
10	532	533	531	532	533	535	535	533	536	536	533	533	535	540	541
11	536	534	533	533	527	535	531	530	531	529	541	544	540	536	537
12	534	533	532	531	531	532	533	532	533	531	533	538	534	534	536
13	535	537	534	532	533	530	528	525	520	532	529	532	538	543	541
14	539	538	538	535	533	533	530	530	530	534	535	542	545	542	545
15*	529	529	529	524	524	524	523	519	520	526	532	539	541	544	537
16	525	525	531	535	535	532	528	523	521	524	532	533	542	543	541
17	539	535	535	536	534	530	536	537	535	537	539	540	546	548	548
18*	531	532	533	530	531	527	523	521	529	529	529	529	532	535	538
19*	530	530	531	532	533	533	529	524	523	525	527	531	534	540	538
20*	528	531	531	532	535	534	528	525	526	530	530	531	540	542	543
21*	528	530	530	531	533	533	528	528	532	528	532	537	537	539	537
22	527	527	527	528	530	531	529	525	527	531	535	537	539	540	538
23*	529	528	530	530	532	533	529	525	528	530	535	536	533	538	538
24	528	527	527	527	530	528	529	527	526	525	525	520	521	532	533
25	524	523	523	525	526	528	527	532	539	536	532	525	532	531	536
26	531	529	528	531	528	527	529	540	541	553	550	545	541	537	535
27*	535	531	530	530	530	530	525	530	535	536	539	544	542	543	543
28	537	534	534	533	532	533	531	538	549	555	555	554	554	548	542
29*	537	536	534	532	530	533	530	532	530	538	546	546	543	543	539
30	538	536	536	534	533	533	529	534	535	535	533	539	538	537	541
Mean.....	532	531	532	532	532	531	529	528	530	533	535	537	539	540	540
Mean*.....	531	531	531	531	532	531	527	525	527	529	533	536	537	540	539

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF VERTICAL INTENSITY.

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 33500 γ PLUS TABULAR QUANTITIES.

16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean	Maximum		Minimum		Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	h	m	γ	
530	529	528	531	530	532	531	533	533	531	12	24	539	7	19	1
534	537	536	532	531	532	531	532	531	534	10	34	542	6	00	2
533	532	532	532	532	531	532	530	531	531	12	00	536	9	40	3
532	533	533	532	531	530	530	530	531	532	9	32	535	7	00	4
529	531	531	530	529	529	527	528	530	531	10	00	537	22	00	5
533	536	535	534	529	528	526	527	527	531	13	42	541	7	08	6
538	537	537	537	536	536	534	531	530	534	15	23	539	0	12	7
533	528	513	517	522	520	518	516	516	529	6	22	539	18	09	8
519	519	523	525	525	525	520	520	517	518	19	00	525	1	43	9
523	524	526	526	526	522	522	519	518	519	19	25	527	12	24	10
516	517	519	523	524	524	522	522	521	519	6	47	526	2	03	11
519	520	525	530	532	533	531	531	531	523	21	00	533	15	25	12
524	531	528	530	524	525	521	524	521	527	8	40	535	22	00	13
535	534	534	533	533	532	532	532	534	532	12	18	543	0	00	14
538	538	538	535	537	538	538	538	537	538	10	44	556	5	47	15
546	545	544	541	539	539	537	538	542	542	13	31	557	7	06	16
548	544	542	539	538	538	537	537	536	543	10	15	556	7	00	17
550	543	544	541	539	538	538	537	535	542	13	00	556	24	00	18
543	541	534	530	531	532	529	526	536	535	14	55	545	23	06	19
548	543	539	538	538	539	540	538	546	540	14	54	554	9	00	20
550	548	545	544	542	541	539	538	537	540	13	38	551	9	00	21
548	547	545	545	543	541	540	538	536	542	14	00	555	1	00	22
547	546	544	544	544	544	541	539	536	540	15	36	548	8	15	23
548	543	542	540	542	541	537	537	533	541	13	50	554	24	00	24
547	544	543	544	543	543	541	540	539	544	12	24	556	0	01	25
543	537	538	538	538	538	538	539	538	539	14	00	548	17	27	26
534	534	536	537	537	537	537	539	540	535	14	16	549	4	00	27
543	540	538	534	535	536	538	538	537	538	12	00	547	5	00	28
533	531	529	531	532	534	536	535	535	531	14	42	537	9	12	29
541	537	534	534	536	535	535	534	534	533	14	30	544	7	12	30
543	539	537	534	534	533	529	534	536	535	13	55	554	7	10	31
537	536	535	534	534	534	532	532	532	534						19
535	534	533	533	533	532	532	531	531	533						17

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 33500 γ PLUS TABULAR QUANTITIES.

533	539	525	535	521	520	522	530	527	531	13	34	547	20	20	513	34	1
(547)	548	542	534	535	533	535	536	538	536	16	46	551	2	00	525	26	2
543	543	536	534	534	530	525	536	529	535	14	44	546	9	21	528	18	3
545	542	541	539	536	532	533	534	536	534	2	29	547	7	51	519	28	4
541	540	540	538	536	533	535	527	528	534	13	23	545	23	24	526	19	5
536	539	540	539	536	534	532	532	527	531	18	00	540	8	18	517	23	6
536	534	535	535	535	532	531	532	527	532	15	20	543	8	45	522	21	7
539	540	540	542	544	538	537	539	543	535	20	20	544	7	44	519	25	8
542	538	539	540	540	539	539	538	536	538	12	32	548	7	49	526	22	9
536	532	533	536	538	539	540	537	537	535	14	36	543	3	00	531	12	10
535	534	533	536	538	538	539	539	538	535	12	00	544	5	00	527	17	11
535	534	533	535	537	539	538	538	538	534	12	11	539	5	00	531	8	12
542	540	538	538	540	541	541	540	539	535	14	00	543	9	00	520	23	13
546	536	535	531	530	531	531	531	531	535	12	42	546	20	00	530	16	14
540	540	540	540	534	530	530	531	527	531	13	39	550	8	00	519	31	15
541	541	533	531	532	532	532	536	539	533	13	13	546	8	52	519	27	16
547	539	536	533	531	530	530	527	527	536	13	12	548	23	23	525	23	17
542	540	536	536	535	532	532	530	529	532	16	00	542	7	45	521	21	18
539	541	537	537	534	532	531	529	528	532	17	00	541	8	22	522	19	19
542	539	539	538	536	534	533	532	530	534	13	47	544	7	30	524	20	20
535	533	535	535	534	533	532	530	527	532	14	00	539	24	00	527	12	21
541	535	534	535	537	535	535	532	532	533	14	20	541	8	00	525	16	22
537	537	538	537	537	536	534	532	529	533	15	00	538	8	00	525	13	23
530	530	530	531	529	529	526	528	527	528	15	00	533	12	00	520	13	24
529	531	535	535	538	539	538	536	533	531	9	28	539	2	00	523	16	25
533	533	536	538	538	539	539	539	538	537	10	00	553	2	10	527	26	26
538	536	538	539	539	540	540	538	537	536	12	00	544	7	00	525	19	27
543	540	539	540	540	540	541	541	539	541	10	00	555	6	43	529	26	28
543	542	540	541	539	539	540	539	540	538	10	56	547	8	31	529	18	29
545	544	544	541	540	539	540	541	541	538	16	00	545	7	12	529	16	30
540	538	537	537	536	535	534	534	533	534							20	
539	539	538	538	536	534	534	532	530	533							20	

NOTE.—Values in parentheses were interpolated.

JULY, 1906.

33500 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2*	540	539	538	536	535	532	527	527	521	534	536	536	544	542	535
3*	542	543	543	542	540	540	532	534	535	539	538	541	546	549	551
4	547	548	548	548	547	542	539	539	544	549	556	555	556	557	556
5	538	539	541	540	540	536	529	537	536	538	541	544	545	550	548
6	537	539	542	542	541	543	539	538	543	549	552	554	558	550	550
7*	532	529	534	536	541	535	529	525	527	530	526	527	530	536	541
8	528	529	530	529	533	533	527	525	529	538	546	550	546	541	535
9	523	523	524	526	528	528	522	518	521	524	527	531	527	529	529
10	526	525	525	525	525	525	526	528	535	543	545	552	553	556	554
11	527	530	536	534	533	529	525	523	532	541	539	541	542	539	533
12	536	534	533	529	530	529	525	527	531	539	538	541	547	549	555
13*	543	543	542	538	536	533	533	531	529	532	537	545	545	549	550
14	537	536	540	535	532	531	523	525	527	534	539	544	548	549	548
15	540	538	535	534	534	532	527	525	527	530	536	543	553	552	551
16*	536	537	535	533	532	530	525	524	528	538	544	542	540	541	545
17*	533	533	532	532	531	530	525	525	526	537	540	548	541	542	545
18*	532	532	533	533	533	532	525	526	537	540	548	543	545	545	545
19	537	537	537	539	537	534	526	519	526	533	538	536	535	543	546
20	536	538	539	541	540	540	534	537	532	533	535	537	539	545	547
21	539	539	541	540	542	540	534	531	527	525	534	542	538	537	545
22	535	542	545	549	544	547	539	529	532	544	548	553	554	549	548
23	542	542	541	545	546	542	536	531	535	537	537	542	543	547	550
24	542	537	537	538	540	540	536	532	533	534	529	529	527	527	533
25*	533	531	532	533	533	535	532	534	540	544	545	541	542	543	543
26*	538	535	533	533	536	534	533	532	535	539	540	547	546	540	540
27	539	537	537	537	538	539	535	532	538	541	543	542	539	543	543
28	543	534	533	532	532	539	(539)	(539)	(541)	(541)	(543)	544	545	554	555
29	(542)	(537)	(532)	(527)	(523)	(518)	(513)	(510)	(513)	(517)	(521)	(524)	525	535	530
30	540	539	538	536	535	535	530	528	530	536	538	541	539	541	544
31*	(539)	(536)	(530)	(526)	(521)	(522)	(528)	(532)	(537)	541	545	548	548	551	549
Mean.....	537	536	536	536	535	534	530	529	532	537	539	542	543	544	545
Mean*.....	538	537	537	537	537	535	529	528	534	538	542	544	545	546	546

AUGUST, 1906.

33500 γ PLUS TABULAR QUANTITIES.

1	545	544	546	544	542	539	532	519	526	527	528	535	542	547	546
2	538	539	539	540	538	534	527	521	516	517	522	528	532	537	538
3*	530	531	533	535	533	535	527	519	523	525	528	534	531	540	544
4*	531	532	532	532	533	539	538	538	541	545	549	552	551	552	555
5*	533	533	534	536	537	538	532	526	529	533	537	534	533	541	542
6	534	534	533	533	536	536	533	537	537	535	534	525	525	530	529
7	533	530	532	534	534	534	529	533	535	532	535	536	537	541	545
8	545	539	548	544	540	535	528	524	526	536	537	542	539	544	549
9*	541	541	537	536	538	537	530	532	532	533	537	541	540	541	547
10	539	535	534	535	533	533	529	532	533	533	535	538	539	539	537
11	536	536	537	537	536	536	536	537	539	544	545	551	551	554	551
12	543	543	542	541	540	539	538	527	532	540	546	557	555	551	553
13	544	538	541	547	549	544	538	538	535	535	537	538	542	542	543
14	544	541	542	545	547	545	542	537	540	542	541	539	542	551	550
15	546	545	545	544	542	544	544	539	539	541	541	544	542	542	539
16	541	542	542	542	541	541	535	532	533	537	544	543	545	542	544
17	539	542	540	540	540	536	531	528	525	518	517	525	530	535	538
18*	531	533	536	538	537	537	535	534	534	535	534	532	533	532	534
19*	528	529	530	532	533	533	527	526	523	527	528	525	525	528	533
20	527	527	530	525	530	534	532	528	525	526	530	533	532	536	538
21*	530	525	527	526	530	532	527	522	523	521	523	524	525	528	530
22*	529	527	530	529	529	530	522	518	523	527	528	529	528	528	525
23*	528	528	529	529	527	528	522	519	524	526	526	528	528	526	529
24	527	527	527	526	528	529	522	521	526	527	525	523	529	534	531
25	534	533	526	526	529	531	527	525	526	524	525	529	534	540	536
26	531	530	525	528	528	529	528	526	528	529	527	530	529	532	530
27	534	530	529	526	525	526	523	527	533	538	540	541	540	537	538
28*	537	537	533	532	531	532	525	525	531	537	542	539	544	547	543
29	536	536	536	535	530	531	518	515	514	519	525	529	530	530	534
30	534	535	535	534	534	531	523	521	520	524	528	531	536	538	539
31	532	527	530	536	532	533	524	519	517	515	519	524	528	533	533
Mean.....	535	534	535	535	535	535	530	527	529	531	533	535	536	539	539
Mean*.....	532	532	532	532	533	534	528	526	528	531	533	534	534	536	538

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF VERTICAL INTENSITY.

87

JULY, 1906.

33500 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
536	537	534	533	533	531	529	534	539	534	13	34	546	9	00	521	25	1
552	549	547	547	547	546	542	544	546	543	15	48	554	7	11	531	23	2
555	547	545	545	545	539	540	537	537	547	11	20	557	24	00	537	20	3
553	548	546	546	542	541	541	539	537	541	15	47	554	7	08	527	27	4
547	540	536	537	537	536	527	527	528	541	13	00	558	7	42	534	24	5
541	541	538	538	538	535	531	530	531	533	15	00	541	8	00	525	16	6
536	534	531	531	531	531	530	526	526	533	11	54	551	8	12	523	28	7
530	527	528	530	531	532	532	529	528	527	21	26	533	8	15	517	16	8
546	543	539	539	540	540	552	542	532	538	13	40	558	4	00	525	33	9
531	529	533	533	537	539	537	539	536	534	10	28	542	7	59	521	21	10
537	538	536	546	540	549	546	542	541	538	14	52	559	6	49	523	36	11
546	543	541	540	538	539	542	541	541	540	13	40	551	7	57	527	24	12
542	541	540	535	533	535	541	541	543	537	13	49	550	6	54	516	34	13
548	542	538	538	534	535	535	535	536	537	13	00	553	8	00	525	28	14
543	537	538	536	533	532	532	533	533	535	11	00	544	8	15	524	20	15
539	535	536	535	531	533	533	531	533	533	15	00	543	7	47	524	19	16
544	543	543	542	538	538	537	537	537	538	11	00	548	7	00	525	23	17
545	541	543	541	538	539	539	537	539	537	15	00	546	8	00	519	27	18
548	549	545	547	545	543	540	540	538	540	15	25	549	9	00	532	17	19
547	548	550	550	546	543	542	542	540	540	18	34	551	9	34	520	31	20
548	549	550	549	546	545	544	542	542	545	12	14	554	8	11	526	28	21
555	552	550	548	548	549	544	542	542	544	16	00	555	8	00	531	24	22
531	531	529	534	539	539	538	534	534	534	4	49	543	17	24	526	17	23
541	539	536	539	541	539	539	534	534	538	10	13	546	2	00	531	15	24
539	542	546	544	543	545	543	543	541	539	12	00	547	0	13	532	15	25
546	540	538	540	541	544	544	542	544	540	11	13	544	7	23	526	18	26
555	(554)	(554)	(554)	(552)	(551)	(549)	(548)	(546)	545	14	24	555	3	22	527	28	27
530	535	536	536	536	537	538	538	538	529	(0 00)	(546)	(8 00)	(510)	(36)	28	28	
550	552	548	(548)	(547)	(546)	(544)	(544)	(544)	541	17	00	552	8	00	528	24	29
547	552	542	542	544	538	538	542	543	539	13	38	553	...	...	520	33	30
551	546	546	545	544	542	540	539	541	542	14	34	558	7	37	521	37	31
544	542	541	541	540	540	539	538	538	538							25	
545	542	542	540	539	539	539	538	539	539							24	

AUGUST, 1906.

33500 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
549	546	545	542	540	536	539	539	539	539	18	57	550	81	00	519	31	1
539	539	539	540	537	535	533	532	530	533	4	00	540	9	41	515	25	2
545	541	540	540	539	535	535	532	531	534	15	40	545	8	22	518	27	3
555	547	548	547	545	541	539	535	535	542	12	45	556	0	47	530	26	4
544	539	540	542	542	539	539	537	534	536	15	41	545	8	00	526	19	5
532	536	538	539	538	540	538	535	535	534	21	00	540	12	30	525	15	6
562	530	524	540	545	535	530	530	544	536	15	41	573	18	15	518	55	7
549	545	539	535	540	543	544	543	543	540	3	17	554	7	16	523	31	8
544	541	538	537	540	539	541	543	543	539	15	00	547	7	44	526	21	9
535	536	536	536	537	539	539	539	538	536	13	37	542	7	13	528	14	10
548	544	545	544	544	544	544	543	543	543	13	32	554	1	00	536	18	11
547	543	542	542	547	546	545	541	547	544	12	13	558	8	27	522	36	12
540	545	543	544	545	546	546	546	544	542	1	28	555	0	48	533	22	13
548	547	546	543	543	542	542	542	545	544	15	33	554	8	09	537	17	14
541	538	538	540	539	541	540	540	540	541	6	41	547	18	38	537	10	15
541	541	540	540	541	540	540	541	540	540	11	30	544	8	00	532	12	16
542	541	539	538	536	533	535	533	533	534	2	00	542	11	00	517	25	17
541	538	539	539	535	534	533	530	527	535	15	51	542	24	00	527	15	18
536	535	536	534	536	534	531	530	528	530	18	00	536	9	10	521	15	19
535	532	533	536	534	534	531	528	526	531	15	00	538	23	38	525	13	20
529	530	530	534	535	532	534	531	529	528	5	29	536	10	22	520	16	21
527	528	530	530	533	534	533	531	529	528	21	00	534	6	55	518	16	22
527	527	527	528	529	528	531	531	530	527	22	45	532	7	50	517	15	23
528	530	532	534	536	537	538	535	535	529	22	22	542	7	26	519	23	24
535	530	531	532	533	534	533	535	532	531	13	52	541	3	09	523	18	25
527	529	529	531	531	524	529	535	538	529	24	00	538	21	12	524	14	26
522	528	531	529	531	531	537	535	535	532	10	48	541	7	26	515	26	27
540	540	536	536	534	533	532	534	533	536	13	39	548	8	10	520	28	28
538	536	535	527	528	533	533	535	534	530	16	00	538	8	40	512	26	29
542	539	539	537	535	534	533	530	528	532	15	31	542	7	13	519	23	30
536	537	536	535	534	532	530	527	528	529	1	24	542	10	00	515	27	31
539	537	537	537	537	536	536	535	535	535							22	
539	537	536	537	537	535	535	533	532	534							20	

NOTE.—Values in parentheses were interpolated.

SEPTEMBER, 1906.

33500 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	529	529	530	530	531	528	516	514	514	514	518	528	535	535	536
2	530	527	534	534	532	534	522	516	517	517	518	522	524	525	531
3	523	525	526	526	528	527	518	512	512	517	523	523	527	514	522
4	528	525	528	529	527	528	526	518	514	516	516	520	517	522	525
5	532	523	528	528	530	531	526	526	524	525	525	528	525	531	534
6	532	531	532	532	536	533	529	526	526	524	523	525	526	531	534
7*	532	533	532	532	534	533	528	524	524	523	524	526	528	528	531
8	534	534	531	531	531	532	529	531	533	538	540	542	543	540	535
9*	533	532	532	530	528	528	521	522	525	531	533	536	533	530	531
10*	534	534	532	532	533	531	527	525	525	522	522	524	525	529	530
11*	530	532	532	531	530	526	518	516	521	523	528	532	534	534	530
12*	536	536	533	528	528	526	519	516	521	522	522	527	528	527	522
13*	529	529	528	528	524	521	508	505	507	515	519	524	525	522	523
14	532	531	531	530	528	527	515	514	515	521	524	529	530	532	533
15	524	533	527	527	529	527	514	510	510	507	526	527	529	528	527
16*	531	535	534	534	535	536	530	525	528	527	532	540	535	536	535
17	531	532	533	537	534	534	526	520	517	517	520	526	527	530	535
18*	536	529	532	534	536	534	523	523	524	527	525	528	530	530	529
19	528	530	528	529	532	532	523	521	519	526	530	532	529	528	527
20	529	525	526	525	529	527	521	519	518	518	521	523	525	525	521
21	531	528	527	530	530	529	526	529	527	525	527	527	528	524	526
22	529	526	528	528	531	531	527	522	518	527	533	539	542	521	532
23	542	542	543	542	538	538	535	533	533	533	533	536	535	541	540
24	532	534	539	539	541	538	538	538	535	539	540	540	539	540	537
25	541	538	537	539	532	534	533	535	535	535	533	532	529	528	534
26*	537	538	537	536	532	534	527	520	523	527	533	532	528	530	528
27	537	538	537	537	535	533	526	521	519	521	533	523	523	525	525
28	535	537	537	537	537	536	529	528	529	531	531	532	534	535	533
29	533	536	537	537	537	533	531	531	531	531	533	535	538	543	537
30	536	538	539	542	542	540	539	532	528	527	531	536	544	541	542
Mean.....	532	532	532	532	532	531	525	522	522	524	527	530	530	530	531
Mean*.....	532	533	532	532	531	530	522	519	521	523	526	530	530	530	530

OCTOBER, 1906.

33500 γ PLUS TABULAR QUANTITIES.

1	531	542	542	542	535	543	533	528	525	528	533	529	535	539	539
2*	536	538	540	539	543	543	540	536	529	531	536	535	536	532	538
3	537	538	540	538	539	540	537	534	528	529	531	532	529	537	541
4	534	535	536	537	537	539	533	534	535	536	536	536	530	536	525
5	531	534	538	534	538	538	533	533	533	533	532	529	529	529	534
6*	537	536	535	537	536	538	535	530	528	530	533	537	533	534	537
7	537	535	537	537	537	536	530	521	515	517	528	526	527	528	531
8*	542	540	541	541	540	538	538	532	528	530	532	534	534	534	536
9	540	541	541	538	538	537	535	535	534	537	539	539	538	539	538
10*	541	541	540	540	538	536	536	533	530	529	529	534	534	535	533
11	541	541	540	540	539	537	536	536	533	536	536	539	534	535	534
12	539	540	537	534	536	531	531	524	522	522	533	536	537	534	533
13	542	543	542	543	540	539	535	535	529	532	534	536	532	537	534
14*	541	542	542	540	540	537	529	525	520	523	529	529	534	539	542
15	536	540	537	539	539	538	530	522	519	521	528	532	532	531	533
16*	533	532	536	537	536	533	527	517	512	518	527	530	528	531	535
17*	530	533	534	537	539	538	534	530	531	533	533	534	535	535	536
18*	534	534	536	538	540	540	535	531	530	531	533	533	533	533	534
19	532	533	536	540	539	540	537	531	528	532	532	531	525	528	529
20	531	531	533	535	535	536	532	525	526	526	528	529	527	529	529
21	533	530	530	528	534	532	529	521	527	529	534	541	533	532	531
22	531	530	535	535	535	535	527	527	524	523	522	526	532	531	525
23	536	535	532	534	534	536	533	525	528	(529)	(529)	(532)	(533)	(533)	(531)
24*	540	539	536	534	533	533	531	528	528	532	533	536	535	536	541
25	536	534	538	534	535	534	529	527	(529)	(535)	(538)	(540)	(536)	(536)	(538)
26*	537	538	537	537	534	532	525	523	526	534	541	541	537	535	535
27	533	539	540	538	537	535	528	518	525	528	530	540	543	537	535
28	...	...	...	...	...	...	...	525	525	528	532	536	535	534	535
29	536	538	543	543	540	539	535	531	530	535	537	539	537	(536)	(539)
30	539	536	538	541	539	538	535	530	527	527	530	528	527	528	537
31	535	537	538	539	540	539	535	529	523	520	522	526	525	530	537
Mean.....	536	537	538	538	538	537	533	529	527	529	532	533	532	534	535
Mean*.....	537	537	538	538	538	537	533	528	526	529	533	534	534	534	537

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF VERTICAL INTENSITY.

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SEPTEMBER, 1906.

33500 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
528	531	531	529	526	528	530	529	530	527	15	05	537	8	00	514	23	1
527	528	534	533	529	528	526	524	523	526	18	12	536	7	20	514	22	2
527	513	519	525	532	530	532	533	528	523	23	00	533	8	05	509	24	3
521	523	530	535	535	535	531	536	527	526	22	40	541	7	39	512	29	4
534	529	533	535	541	537	535	535	537	530	20	00	541	2	00	523	18	5
534	533	537	537	539	538	538	541	533	532	22	45	542	11	00	523	19	6
528	529	531	532	536	536	536	537	537	531	24	00	537	10	00	523	14	7
531	530	532	534	532	534	534	534	534	534	12	34	545	16	35	528	17	8
527	531	532	533	534	533	534	535	534	531	12	00	536	7	03	519	17	9
529	529	529	529	531	532	533	531	533	529	12	39	536	8	09	516	20	10
535	533	533	535	533	533	531	532	535	530	12	51	536	8	09	515	21	11
523	521	527	527	526	525	525	525	529	526	0	44	537	7	35	516	21	12
524	523	526	526	524	525	524	526	525	522	1	54	529	8	26	504	25	13
534	530	534	533	531	530	529	528	527	528	18	00	534	8	28	512	22	14
528	537	535	531	531	526	529	532	530	526	1	43	536	8	54	509	27	15
534	535	541	534	528	529	530	530	531	533	11	46	541	10	00	527	14	16
537	537	536	535	534	535	529	527	526	530	4	35	540	10	00	517	23	17
531	531	536	534	534	534	531	531	531	530	5	43	538	8	26	521	17	18
528	531	533	532	532	531	530	528	528	529	3	27	534	8	34	519	15	19
525	530	529	530	531	532	531	531	530	526	21	00	532	10	00	518	14	20
524	530	532	532	534	534	533	535	531	529	22	48	537	15	15	522	15	21
546	543	509	518	535	549	551	542	544	532	22	23	551	18	07	503	48	22
535	535	537	537	539	539	538	540	546	538	0	35	546	13	06	533	13	23
538	544	539	540	540	538	540	538	540	539	0	00	546	15	08	532	14	24
533	534	534	533	533	532	529	538	535	534	3	42	542	14	43	521	21	25
531	536	536	534	533	532	534	534	537	532	17	16	538	7	20	520	18	26
530	533	534	534	534	533	532	533	533	530	2	09	540	9	00	519	21	27
531	532	536	533	532	533	530	531	532	533	2	42	539	7	26	527	12	28
540	539	535	537	539	539	536	537	536	536	14	00	543	7	49	528	15	29
544	546	544	540	540	538	537	530	536	538	17	00	546	10	21	526	20	30
531	532	532	533	533	533	533	533	533	530							20	
529	530	532	531	530	531	531	531	532	529							19	

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33500 γ PLUS TABULAR QUANTITIES.

540	542	542	543	543	542	540	537	531	537	6	00	543	9	04	525	18	1
542	540	542	544	543	539	538	536	538	538	19	00	544	9	24	526	18	2
540	537	541	543	542	541	541	538	536	537	19	00	543	9	53	527	16	3
531	535	537	541	541	541	541	536	534	536	19	29	541	15	00	525	16	4
536	536	538	539	541	540	542	542	539	535	22	08	543	13	00	529	14	5
535	535	536	539	540	540	541	539	539	536	22	00	541	8	33	528	13	6
535	538	540	539	542	542	542	545	543	534	23	00	545	9	00	515	30	7
537	535	536	538	540	542	541	541	541	537	21	00	542	8	35	527	15	8
535	536	535	535	539	539	539	541	542	538	24	00	542	9	00	534	8	9
535	534	536	536	537	537	538	540	543	536	24	00	543	11	00	529	14	10
537	535	536	533	533	535	539	539	541	537	0	16	544	19	00	533	11	11
535	539	539	538	538	539	538	541	542	535	24	00	542	9	33	515	27	12
538	541	541	539	537	536	539	539	541	538	1	27	548	9	00	529	19	13
542	543	540	538	537	534	534	534	533	535	2	34	544	9	27	518	26	14
535	536	537	535	531	531	531	532	532	532	4	27	541	9	00	519	22	15
535	535	536	536	536	532	530	531	531	531	4	00	537	9	00	512	25	16
537	539	545	545	543	539	538	537	535	536	18	00	546	1	00	530	16	17
539	539	541	541	538	537	538	536	534	536	18	00	541	8	36	528	13	18
535	538	540	542	542	541	539	538	535	535	4	30	543	13	00	525	18	19
533	533	534	537	539	537	534	537	534	532	20	00	539	8	32	523	16	20
534	534	534	536	538	539	533	537	535	533	12	05	541	8	27	520	21	21
529	537	535	536	538	539	541	539	537	532	22	09	543	15	37	521	22	22
(533)	536	537	537	537	537	539	538	540	534	24	00	540	8	00	525	15	23
540	540	534	535	535	534	538	537	537	535	15	00	541	8	28	526	15	24
(537)	539	538	536	533	535	535	539	539	535	23	34	540	8	00	527	13	25
534	537	532	530	532	531	531	537	541	534	12	21	543	8	00	523	20	26
...	551	545	542	539	536	538	540	...	...	17	00	551	7	57	516	35	27
537	540	538	536	535	534	534	534	536	...	17	13	540	8	25	523	17	28
(542)	542	537	537	538	541	532	534	535	537	3	54	544	7	58	530	14	29
544	544	543	542	540	537	536	535	534	536	15	34	546	9	46	526	20	30
541	541	543	539	532	535	537	536	535	534	18	00	543	10	17	518	25	31
537	538	538	538	538	538	537	538	537	535							18	
538	538	538	538	538	536	537	537	537	535							18	

NOTE.—Values in parentheses were interpolated.

NOVEMBER, 1906.

33500 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2*	533	536	537	541	538	538	537	538	537	535	537	541	540	(541)	(542)
3	535	536	537	539	540	539	540	538	537	533	527	532	538	542	541
4	534	533	533	534	536	535	535	532	530	528	532	536	534	533	534
5	533	533	534	534	536	537	536	530	530	531	532	536	538	540	539
6	538	538	542	542	542	544	543	541	537	537	539	539	535	536	534
7	538	537	537	537	538	538	540	539	537	533	538	538	539	538	536
8	(528)	(524)	(523)	(518)	(517)	(520)	(521)	532	528	531	532	538	539	535	530
9*	534	538	539	540	536	538	539	532	530	527	529	531	533	534	535
10	537	536	533	532	532	532	532	531	530	528	527	532	533	535	538
11*	544	543	542	540	539	539	538	532	530	529	528	528	538	544	546
12*	542	544	543	543	542	542	543	541	540	538	539	542	545	546	547
13	543	544	545	545	542	542	542	538	539	542	541	539	542	544	548
14*	(543)	(544)	(547)	(546)	(546)	(545)	(544)	540	540	540	538	538	542	544	550
15*	544	545	547	546	548	546	544	538	531	529	539	532	538	538	545
16	542	545	545	546	548	548	551	543	537	537	537	537	537	541	542
17	545	545	546	547	550	551	545	540	537	532	533	534	540	543	546
18	541	541	545	546	548	548	547	544	537	534	535	533	532	529	529
19	540	541	542	542	543	544	551	548	546	540	538	534	539	538	535
20	540	542	543	544	543	545	548	546	541	538	534	535	537	538	539
21	538	538	537	537	536	537	540	540	533	529	525	528	532	534	538
22	548	546	543	543	541	542	540	537	536	534	535	532	536	523	534
23	561	549	555	550	544	545	547	544	542	538	539	542	545	541	546
24	553	551	551	549	549	549	548	544	541	539	543	545	545	547	550
25*	553	554	554	553	550	548	547	543	542	538	538	543	545	544	540
26*	545	547	548	550	547	544	544	537	538	535	539	542	542	549	552
27*	545	547	547	546	545	545	546	542	535	529	533	539	540	545	548
28	541	543	545	545	544	544	541	536	527	525	526	529	535	538	542
29*	545	549	549	552	553	550	548	543	537	537	538	535	540	544	549
30	551	550	552	555	555	555	553	549	545	543	544	546	552	555	558
31	551	551	553	555	555	555	552	546	543	540	537	537	539	542	546
Mean	542	542	543	543	543	543	543	539	536	534	535	536	539	540	542
Mean*	542	544	544	545	544	544	544	539	536	534	534	537	540	543	546

DECEMBER, 1906.

33500 γ PLUS TABULAR QUANTITIES.

1	540	540	542	543	545	546	544	541	536	532	526	533	529	529	534
2	537	537	539	542	541	542	544	541	535	531	527	527	533	537	547
3*	547	547	548	549	550	549	549	547	546	542	544	546	548	550	548
4	550	550	551	551	551	550	553	550	548	547	549	550	547	(548)	(549)
5	552	550	550	549	548	550	553	551	546	543	546	547	544	543	546
6	548	548	548	546	545	545	546	543	539	537	533	535	541	542	548
7*	552	550	549	550	549	548	550	546	540	541	536	535	542	543	542
8	548	552	571	549	533	541	558	541	545	539	535	541	538	546	547
9	556	559	557	557	558	553	558	545	551	548	550	545	550	549	551
10	554	554	554	553	552	549	551	549	544	540	537	537	539	540	545
11*	554	557	556	554	553	551	549	543	541	540	538	538	545	549	553
12*	558	557	557	557	558	556	556	549	544	537	530	530	(536)	(542)	(550)
13	560	562	563	565	564	561	560	556	551	545	542	546	546	547	553
14	555	555	556	554	555	552	553	545	540	532	528	537	542	554	558
15*	548	546	550	553	557	554	560	546	533	535	536	534	538	543	546
16	551	550	553	555	555	554	554	550	545	544	546	551	561	545	546
17	549	562	556	556	558	561	560	554	549	547	547	551	553	556	562
18	562	551	551	551	552	556	558	555	550	548	545	541	541	541	546
19*	549	548	547	546	546	547	550	549	544	541	542	540	542	543	541
20	550	547	546	544	544	544	546	544	542	538	536	545	545	542	547
21	552	550	546	546	544	545	545	543	541	540	536	536	539	540	544
22	556	555	554	546	562	554	553	555	520	526	531	537	543	543	554
23	576	572	566	565	565	567	564	559	548	553	555	553	548	551	554
24	565	558	562	558	555	554	550	549	543	540	545	543	539	540	553
25*	562	563	562	562	560	559	560	558	552	545	541	548	555	559	561
26*	560	562	561	561	558	557	557	555	550	545	553	556	554	557	559
27*	564	565	565	565	566	564	562	557	552	546	545	549	554	557	560
28	558	560	563	568	563	560	559	559	556	551	547	549	555	558	561
29*	557	556	557	558	557	557	556	552	546	543	540	540	542	551	557
30	558	560	559	562	561	560	562	557	552	549	545	542	548	550	551
31	560	560	561	561	561	563	565	563	558	552	551	546	546	552	560
Mean	554	554	555	554	554	553	554	550	545	542	541	542	545	547	551
Mean*	555	555	555	556	555	554	555	550	545	542	540	542	546	549	552

* The mean hourly values given on the bottom line are derived from the "quiet days" indicated by asterisks.

HOURLY VALUES OF VERTICAL INTENSITY.

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33500 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
543	541	541	541	540	539	537	537	535	539	16	00	543	1	00	533	10	1
542	540	540	540	540	540	540	536	535	538	14	00	542	11	00	527	15	2
536	539	539	539	539	539	538	538	535	535	12	17	539	10	00	528	11	3
534	534	532	535	536	535	536	534	534	535	14	00	540	8	00	530	10	4
537	537	536	536	537	537	537	540	537	538	5	45	545	0	09	533	12	5
533	532	532	534	534	533	533	531	533	536	7	48	540	22	00	531	9	6
533	536	535	531	531	531	528	532	534	529	13	00	539	(5	00)	(517)	22	7
535	533	531	530	531	533	535	538	538	534	6	39	541	19	17	526	15	8
540	536	534	532	532	533	535	537	541	534	23	59	541	11	00	527	14	9
545	542	537	535	526	530	537	540	541	537	15	00	546	20	20	520	26	10
547	542	540	539	538	540	541	540	542	542	13	28	548	20	00	538	10	11
550	551	547	544	540	540	(540)	(540)	(542)	544	17	00	551	8	00	538	13	12
555	553	550	548	545	543	541	541	542	544	16	33	557	12	00	538	19	13
547	550	548	546	545	542	541	540	540	542	17	00	550	10	00	529	21	14
544	548	545	546	547	544	542	541	542	543	7	00	551	13	00	537	14	15
548	548	549	547	546	546	543	541	541	543	5	33	552	10	58	532	20	16
531	539	541	543	543	541	538	538	536	539	6	30	550	14	40	527	23	17
541	548	544	543	544	547	545	544	547	543	7	27	553	12	00	534	19	18
544	545	545	546	547	544	545	543	543	542	0	21	556	11	16	533	23	19
540	541	540	544	546	545	546	546	546	538	23	49	547	10	51	524	23	20
539	537	543	553	553	551	558	555	552	542	22	00	558	14	06	522	36	21
543	545	547	548	547	548	551	553	554	547	0	41	566	11	15	538	28	22
552	548	547	547	547	546	548	551	551	548	0	47	554	9	51	539	15	23
541	542	542	543	541	539	539	545	545	545	2	32	556	21	39	534	22	24
547	543	541	539	537	539	539	538	543	543	15	00	552	10	00	535	17	25
549	548	545	543	542	538	536	538	542	542	16	00	549	10	16	529	20	26
546	548	550	549	546	545	544	544	544	541	17	21	550	10	24	524	26	27
554	552	552	553	552	549	549	549	552	547	16	00	554	12	00	535	19	28
558	558	556	555	552	552	552	551	551	552	15	07	559	10	00	543	16	29
549	550	548	549	548	547	545	541	538	547	4	34	555	11	41	537	18	30
543	544	543	543	542	541	541	541	542	541							18	
547	546	545	543	542	541	541	540	542	542							17	

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33500 γ PLUS TABULAR QUANTITIES.

542	543	544	543	542	536	535	537	539	538	6	40	546	11	00	526	20	1
547	547	547	548	538	542	546	547	547	540	19	00	548	12	00	527	21	2
550	548	549	551	552	555	553	553	552	549	20	53	555	10	20	541	14	3
(551)	551	553	554	554	553	554	553	553	551	7	05	554	13	00	547	7	4
548	548	547	548	550	551	551	551	550	548	7	00	553	13	47	542	11	5
541	543	547	550	550	549	546	551	554	545	24	00	554	10	48	532	22	6
547	545	545	545	545	551	551	554	553	546	23	08	557	11	29	532	25	7
548	546	541	552	553	550	550	549	550	547	3	07	571	3	09	532	39	8
551	552	553	552	552	551	554	555	555	552	1	19	568	12	00	545	23	9
551	553	552	550	549	549	551	556	557	549	23	51	558	13	34	536	22	10
556	556	555	553	549	553	555	555	556	550	2	00	557	12	14	537	20	11
(557)	561	560	558	557	557	557	559	560	552	5	07	562	12	30	528	34	12
558	558	558	559	557	554	552	555	555	555	4	17	566	11	17	540	25	13
558	555	552	551	549	548	547	545	546	549	15	27	559	10	49	527	32	14
550	548	550	557	557	553	545	553	548	548	7	00	560	12	32	531	29	15
555	555	555	555	565	559	564	558	558	554	20	00	565	14	47	538	27	16
566	558	552	554	556	554	553	553	553	555	16	00	566	10	00	547	19	17
549	549	551	554	555	555	555	554	552	560	7	11	558	12	00	541	17	18
542	543	549	550	552	555	555	554	553	547	22	00	555	12	00	540	15	19
545	542	545	548	550	551	552	553	553	546	23	00	553	11	00	536	17	20
546	544	543	541	542	541	535	545	554	543	0	52	555	12	10	534	21	21
549	552	557	566	559	556	575	570	574	562	21	50	577	9	31	515	62	22
555	555	556	554	552	553	553	558	563	558	1	20	580	12	30	546	34	23
559	558	559	559	558	558	559	561	563	554	1	07	567	13	29	537	30	24
563	562	560	560	559	559	553	559	561	558	2	18	563	11	00	541	22	25
558	556	560	563	562	559	561	562	563	558	19	07	565	10	27	545	20	26
564	562	562	562	561	559	559	558	559	559	4	08	566	11	00	545	21	27
563	562	561	561	560	559	558	556	555	558	4	20	568	10	05	547	21	28
560	559	560	560	558	557	557	556	556	554	16	00	560	11	40	538	22	29
553	564	556	558	559	558	556	557	561	556	7	07	562	12	00	542	20	30
563	566	564	564	564	563	561	559	559	559	7	07	566	12	38	543	23	31
553	553	553	554	554	553	554	554	555	551							24	
555	554	555	556	555	556	555	556	556	552							22	

NOTE.—Values in parentheses were interpolated.

EARTHQUAKES.

In September, 1903, a Bosch-Omori seismograph comprising two horizontal pendulums, one recording north-south motion (N) and the other recording east-west motion (E), was mounted in the room north of the one occupied as an office on the ground floor of the old fort. It was supported by four stone piers, 20 inches square and 32 inches deep, with their tops just above the floor level. The following table is a register of the earthquakes recorded up to the end of 1906. The times are Greenwich mean time counted from midnight:

Register of earthquakes recorded at Vieques.

No.	Component	Date	First P. T.	Second P. T.	Large waves	Maximum	End of principal portion	End	Maximum amp.
			<i>h m s</i>	<i>h m s</i>	<i>h m s</i>	<i>h m s</i>	<i>h m</i>	<i>h m</i>	<i>mm</i>
1	N	1903. Sept. 7	7 36 18	.. .. .	.. .. .	.. .. .	.. .. .	9 47	...
2	N	Oct. 9	.. .. .	.. .. .	23 45 54	23 46 00	.. .. .	23 47	2.1
2	E	9	.. .. .	.. .. .	23 45 54	23 46 00	.. .. .	23 47	1.9
3	N	29	15 31 30	.. .. .	.. .. .	.. .. .	.. .. .	15 46	...
3	E	29	15 32 30	.. .. .	.. .. .	.. .. .	.. .. .	15 46	...
4	N	Nov. 28	10 49 48	.. .. .	.. .. .	.. .. .	.. .. .	10 56	...
4	E	28	10 50 18	.. .. .	.. .. .	.. .. .	.. .. .	10 57	...
5	N	Dec. 5	5 42 30	.. .. .	.. .. .	.. .. .	.. .. .	6 08	...
5	E	5	5 42 18	.. .. .	.. .. .	.. .. .	.. .. .	6 12	...
6	N	7	14 52 24	14 58 24	15 03 24	15 16 48	15 22	15 44	0.4
6	E	7	14 52 48	14 59 48	15 03 18	15 04 12	15 22	15 48	0.4
7	N	10	17 49 06	.. .. .	.. .. .	.. .. .	.. .. .	18 22	...
7	E	10	17 49 06	.. .. .	18 05 06	18 05 36	18 11	18 23	0.3
8	N	28	4 13 12	.. .. .	.. .. .	.. .. .	.. .. .	4 36	...
9	N	1904. Jan. 20	14 56 36	.. .. .	15 00 06	15 00 12 15 04 48 15 09 12	15 21	16 07	15 ? 13.8 9.2
9	E	20	14 56 36	.. .. .	15 00 06	15 00 12 15 02 00 15 07 30	15 16	16 20	12 ? 18.5 12.0
10	N	Feb. 4	20 50 48	.. .. .	20 53 54	20 54 18	21 02	21 32	1.8
10	E	4	20 50 48	.. .. .	20 54 06	20 54 18	21 02	21 40	2.0
11	N	Mar. 4	10 29 36	10 34 48	10 42 36	10 35 36	10 49	10 55	0.4
11	E	4	10 28 36	10 34 54	.. .. .	10 35 00	10 47	11 01	0.3
12	N	19	6 36 30	6 43 30	6 52 18	6 57 48	7 02	7 18	0.6
12	E	19	6 37 00	6 43 48	6 52 30	6 57 48	7 03	7 18	0.6
13	E	Apr. 4	10 38 06	.. .. .	10 59 24	11 06 06	11 19	11 53	1.2
14	N	5	11 30 24	.. .. .	.. .. .	.. .. .	.. .. .	11 51	...
15	N	12	19 34 48	.. .. .	.. .. .	.. .. .	.. .. .	19 46	...
15	E	12	19 35 48	.. .. .	19 41 06	19 41 48	19 46	19 58	0.2
16	N	May 1	16 11 36	.. .. .	.. .. .	.. .. .	.. .. .	17 32	...
16	E	1	16 11 36	.. .. .	.. .. .	.. .. .	.. .. .	17 32	...
17	N	May 11	.. .. .	19 57 36	19 58 18	.. .. .	20 01	20 06	0.3
17	E	11	.. .. .	19 57 54	19 58 24	.. .. .	20 00	20 07	0.3
18	N	14	14 18 30	.. .. .	14 41 42	.. .. .	14 53	15 04	0.2
18	E	14	14 18 06	.. .. .	14 40 36	.. .. .	14 54	15 04	0.2
19	N	18	12 13 06	.. .. .	.. .. .	.. .. .	.. .. .	12 17	...
19	E	18	12 13 06	.. .. .	.. .. .	.. .. .	.. .. .	12 17	...
20	N	21	15 16 36	.. .. .	15 17 18	15 17 42	15 20	15 25	0.4
20	E	21	15 16 48	.. .. .	15 17 12	15 17 42	15 21	15 32	0.4
21	N	21	19 11 12	.. .. .	.. .. .	.. .. .	.. .. .	19 16	...
21	E	21	19 11 24	.. .. .	.. .. .	.. .. .	.. .. .	19 18	...
22	N	21	21 31 24	21 31 54	21 32 18	21 32 24	21 35	21 39	0.4
22	E	21	21 31 24	21 31 42	21 32 06	21 33 00	21 35	21 36	0.4
23	N	June 12	12 37 36	.. .. .	12 38 36	12 39 06	12 40	12 46	0.4
23	E	12	12 37 36	.. .. .	12 38 36	12 38 54	12 39	12 45	0.1
24	N	24	1 58 18	.. .. .	.. .. .	.. .. .	.. .. .	2 12	...
24	E	24	2 00 42	.. .. .	.. .. .	.. .. .	.. .. .	2 12	...
25	N	25	15 03 18	15 18 18	15 35 42	15 44 42	16 01	17 00	0.6
25	E	25	15 06 06	15 18 12	15 33 06	15 46 24	16 01	17 01	0.4
26	N	25	.. .. .	21 33 00	21 48 42	21 58 18	22 15	22 57	2.0
26	E	25	.. .. .	21 32 42	21 48 06	22 05 48	22 10	22 47	0.8
27	N	26	11 28 42	.. .. .	.. .. .	.. .. .	.. .. .	11 52	...
27	E	26	11 31 06	.. .. .	.. .. .	.. .. .	.. .. .	11 57	...
28	N	27	0 27 42	0 42 06	0 57 00	1 06 30	1 24	1 58	4.2
28	E	27	0 27 30	0 42 00	0 57 30	1 07 00	1 26	2 00	0.9

Register of earthquakes recorded at Vieques—Continued.

No.	Component	Date	First P. T.	Second P. T.	Large waves	Maximum	End of principal portion	End	Maximum amp.
		1904.	<i>h m s</i>	<i>h m s</i>	<i>h m s</i>	<i>h m s</i>	<i>h m</i>	<i>h m</i>	<i>mm</i>
29	N	July 10	23 00 16	.. .. .	.. .. .	.. .. .	.. .. .	23 15	...
29	E	10	23 00 22	.. .. .	.. .. .	.. .. .	.. .. .	23 15	...
30	N	24	11 37 00	.. .. .	.. .. .	.. .. .	.. .. .	11 53	...
31	N	Aug. 24	21 55 00	.. .. .	.. .. .	.. .. .	.. .. .	22 55	...
31	E	24	22 00 00	.. .. .	.. .. .	.. .. .	.. .. .	22 44	...
32	N	27	22 08 34	.. .. .	22 30 30	22 40 00	.. .. .	24 00	20.0
32	E	27	22 08 38	.. .. .	22 29 18	22 35 54	.. .. .	24 09	16.5
33	N	30	.. .. .	.. .. .	12 45 00	.. .. .	.. .. .	13 27	0.4
33	E	30	.. .. .	.. .. .	12 47 00	.. .. .	.. .. .	13 21	...
34	N	Sept. 3	17 16 00	.. .. .	.. .. .	.. .. .	.. .. .	17 22	...
34	E	3	17 15 00	.. .. .	.. .. .	.. .. .	.. .. .	17 26	...
35	N	Sept. 11	.. .. .	.. .. .	6 52 00	.. .. .	.. .. .	7 28	...
35	E	11	.. .. .	.. .. .	6 47 00	.. .. .	.. .. .	7 26	...
36	N	19	.. .. .	.. .. .	0 35 00	.. .. .	.. .. .	0 57	...
36	E	19	.. .. .	.. .. .	0 32 00	.. .. .	.. .. .	1 02	...
37	N	19	.. .. .	.. .. .	5 50 00	.. .. .	.. .. .	6 50	...
37	E	19	.. .. .	.. .. .	5 48 00	.. .. .	.. .. .	6 48	...
38	N	Oct. 3	3 51 00	.. .. .	.. .. .	.. .. .	.. .. .	4 37	...
38	E	3	4 08 00	.. .. .	.. .. .	.. .. .	.. .. .	4 28	...
39	N	9	14 09 00	.. .. .	.. .. .	.. .. .	.. .. .	14 48	...
39	E	9	14 07 00	.. .. .	.. .. .	.. .. .	.. .. .	14 50	...
40	N	25	9 55 00	.. .. .	.. .. .	.. .. .	.. .. .	10 20	...
40	E	25	9 56 00	.. .. .	.. .. .	.. .. .	.. .. .	10 17	0.2
41	N	Nov. 1	9 29 08	.. .. .	.. .. .	9 29 26	.. .. .	9 33	0.6
41	E	1	9 29 11	.. .. .	.. .. .	9 29 27	.. .. .	9 33	0.4
42	N	21	13 16 40	.. .. .	13 17 00	13 18 56	.. .. .	13 27	...
42	E	21	13 15 39	.. .. .	13 17 15	13 17 23	.. .. .	13 30	...
43	N	24	12 29 00	.. .. .	.. .. .	.. .. .	.. .. .	12 42	...
43	E	24	12 30 00	.. .. .	.. .. .	.. .. .	.. .. .	12 40	...
44	N	Dec. 2	2 27 17	2 31 53	2 34 17	2 37 08	.. .. .	3 05	2.0
44	E	2	2 27 10	2 31 48	2 35 48	2 39 14	.. .. .	3 04	2.4
45	N	5	18 09 34	.. .. .	.. .. .	.. .. .	.. .. .	18 27	0.2
45	E	5	18 09 34	.. .. .	.. .. .	.. .. .	.. .. .	18 27	...
46	N	11	17 15 20	.. .. .	.. .. .	.. .. .	.. .. .	17 45	...
46	E	11	17 15 22	17 21 22	17 24 22	17 35 40	.. .. .	17 50	0.4
47	N	20	5 50 10	.. .. .	5 53 49	5 54 40	.. .. .	7 21	28.0
47	E	20	5 50 10	.. .. .	5 53 46	5 58 10	.. .. .	7 24	35.0
48	N	21	1 41 27	.. .. .	1 45 17	1 50 17	.. .. .	2 20	0.4
48	E	21	1 41 28	.. .. .	1 45 18	1 48 27	.. .. .	2 18	0.4
49	N	28	21 09 12	.. .. .	21 13 00	.. .. .	.. .. .	21 57	...
49	E	28	21 09 20	.. .. .	21 13 16	.. .. .	.. .. .	21 45	...
		1905.							
50	N	Jan. 13	.. .. .	.. .. .	14 30 ..	.. .. .	.. .. .	15 00	...
50	E	13	.. .. .	.. .. .	14 32 ..	.. .. .	.. .. .	14 56	...
51	N	20	18 05 02	.. .. .	18 08 40	18 09 04	.. .. .	18 29	0.6
51	E	20	18 05 02	.. .. .	18 08 44	18 09 08	.. .. .	18 29	0.5
52	N	22	3 03 39	.. .. .	3 27 37	.. .. .	.. .. .	4 48	...
52	E	22	3 03 39	.. .. .	3 27 37	.. .. .	.. .. .	4 47	...
53	N	Feb. 14	9 10 37	.. .. .	9 35 24	9 43 49	.. .. .	10 21	1.1
53	E	14	9 11 01	.. .. .	9 31 43	9 38 00	.. .. .	10 45	0.5
54	E	19	.. .. .	.. .. .	5 38 ..	.. .. .	.. .. .	.. .. .	...
55	N	Mar. 5	.. .. .	.. .. .	0 28 ..	.. .. .	0 55	.. .. .	...
55	E	5	.. .. .	.. .. .	0 28 ..	.. .. .	0 55	.. .. .	...
56	N	6	.. .. .	.. .. .	1 46 43	.. .. .	.. .. .	2 07	...
56	E	6	.. .. .	.. .. .	1 41 50	.. .. .	.. .. .	2 06	...
57	N	19	0 21 32	.. .. .	1 00 08	.. .. .	.. .. .	2 38	...
57	E	19	0 21 14	0 37 54	0 59 54	.. .. .	.. .. .	2 21	...
58	N	22	4 03 05	.. .. .	4 26 05	4 36 25	.. .. .	5 29	0.8
58	E	22	4 03 21	.. .. .	4 29 31	.. .. .	.. .. .	5 24	...
59	N	Apr. 4	1 10 26	1 26 48	1 50 48	2 10 48	.. .. .	3 47	1.2
59	E	4	1 10 25	1 26 27	1 43 25	2 13 51	.. .. .	3 38	1.6
60	N	19	.. .. .	.. .. .	9 52 00	.. .. .	.. .. .	10 54	...
61	N	19	.. .. .	.. .. .	13 25 00	.. .. .	.. .. .	13 48	...
62	N	26	21 50 04	21 56 12	.. .. .	21 59 40	.. .. .	22 30	0.7
62	E	26	21 51 07	21 56 07	.. .. .	21 59 31	.. .. .	22 20	0.7
63	N	May 9	.. .. .	.. .. .	6 56 26	.. .. .	.. .. .	7 32	...
63	E	9	.. .. .	.. .. .	6 53 10	7 06 10	.. .. .	7 24	0.4

Register of earthquakes recorded at Vieques—Continued.

No.	Component	Date	First P. T.			Second P. T.			Large waves			Maximum			End of principal portion	End	Maximum amp.
			<i>h</i>	<i>m</i>	<i>s</i>	<i>h</i>	<i>m</i>	<i>s</i>	<i>h</i>	<i>m</i>	<i>s</i>	<i>h</i>	<i>m</i>	<i>s</i>	<i>h</i>	<i>m</i>	<i>mm</i>
		1905.															
64	N	May 12	..	..	..	..	..	..	15	40	00	..	..	..	..	16	06
64	E	12	..	..	..	..	..	..	15	45	80	..	..	..	..	16	10
65	N	15	9	08	44	..	..	..	..	..	..	9	08	46	..	9	10
65	E	15	9	08	46	..	..	..	..	..	..	..	..	..	..	9	10
66	N	18	..	..	..	..	..	..	14	06	00	..	..	..	..	15	42
67	N	23	..	..	..	..	..	..	6	54	00	..	..	..	..	7	09
67	E	23	..	..	..	..	..	..	6	54	37	..	..	..	..	7	14
68	N	June 14	..	..	..	..	..	..	11	59	00	..	..	..	..	12	43
68	E	14	..	..	..	..	..	..	11	59	00	..	..	..	..	12	41
69	N	30	..	..	..	..	..	..	17	30	30	..	..	..	..	19	48
69	E	30	..	..	..	..	..	..	17	31	30	..	..	..	..	19	40
70	N	30	20	20	24	..	..	..	..	..	..	..	..	..	..	20	58
70	E	30	20	21	24	..	..	..	..	..	..	..	..	..	..	20	58
71	N	July 6	17	22	32	..	..	..	..	..	..	17	31	45	..	18	03
71	E	6	17	22	14	..	..	..	..	..	..	17	34	18	..	18	00
72	N	9	9	59	37	..	..	..	10	38	36	10	45	03	10	53	12
72	E	9	10	07	48	..	..	..	10	31	11	10	33	11	11	04	12
73	N	14	..	..	..	..	..	..	9	28	..	..	..	..	..	9	55
73	E	14	..	..	..	..	..	..	9	24	..	..	..	..	..	9	52
74	N	23	3	05	49	..	..	..	3	45	21	4	03	12	4	16	6
74	E	23	3	05	54	..	..	..	3	44	49	3	49	04	4	09	6
75	N	Sept. 8	..	..	..	..	..	..	1	56	..	..	..	..	..	2	40
75	E	8	..	..	..	..	..	..	1	58	..	..	..	..	..	2	52
76	N	15	6	21	01	..	..	..	6	50	46	7	03	16	7	19	7
76	E	15	6	19	54	..	..	..	6	51	51	7	06	10	7	11	8
77	N	Oct. 12	22	27	12	..	..	..	..	..	..	..	..	..	..	22	38
77	E	12	22	27	49	..	..	..	..	..	..	..	..	..	..	22	38
78	N	14	14	38	48	..	..	..	14	41	48	14	44	28	14	45	15
78	E	14	14	38	45	..	..	..	14	41	52	14	43	10	14	45	15
79	N	15	10	43	09	..	..	..	..	..	..	..	..	..	..	10	50
79	E	15	10	43	23	..	..	..	..	..	..	..	..	..	..	10	50
80	N	15	21	44	52	21	46	51	21	47	59	21	50	28	21	55	22
80	E	15	21	44	55	21	47	28	21	48	13	21	49	40	21	53	22
81	N	24	17	57	00	..	..	..	..	..	..	..	..	..	..	18	17
81	E	24	17	57	50	..	..	..	..	..	..	..	..	..	..	18	17
82	N	Nov. 8	22	28	29	..	..	..	..	..	..	..	..	..	..	22	58
82	E	8	22	28	13	..	..	..	..	..	..	..	..	..	..	22	57
83	N	Dec. 10	12	57	38	..	..	..	13	19	48	13	22	43	13	28	13
83	E	10	12	57	39	..	..	..	13	17	58	13	23	17	13	29	13
84	N	17	5	40	13	5	46	18	5	54	57	6	00	25	6	05	6
		1906.															
85	E	Jan. 21	14	16	56	14	26	19	14	31	00	..	..	..	..	14	54
86	N	24	6	52	58	..	..	..	7	15	45	7	20	41	7	31	..
86	E	24	..	..	..	..	..	..	7	14	45	..	..	..	..	7	27
87	N	27	10	05	13	..	..	..	10	33	39	..	..	..	10	48	11
87	E	27	10	11	59	10	19	48	10	30	03	10	36	12	10	46	11
88	N	31	14	18	37	..	..	..	..	..	..	..	..	..	..	14	40
88	E	31	14	18	32	..	..	..	..	..	..	..	..	..	..	14	40
89	N	31	15	40	54	..	..	..	15	41	40	15	46	52	16	13	19
89	E	31	15	41	00	..	..	..	15	41	46	15	50	16	..	..	56
90	N	31	..	..	..	..	..	..	21	31	58	..	..	..	..	21	57
90	E	31	..	..	..	..	..	..	21	31	52	..	..	..	..	21	57
91	N	Feb. 1	6	34	23	..	..	..	..	..	..	..	..	..	..	6	54
91	E	1	6	34	51	..	..	..	..	..	..	..	..	..	..	6	58
92	N	1	23	30	50	..	..	..	..	..	..	..	..	..	..	24	00
92	E	1	23	30	25	..	..	..	..	..	..	..	..	..	..	23	58
93	N	2	16	58	36	17	02	36	..	..	..	..	..	..	..	17	22
93	E	2	16	58	38	17	02	30	17	05	15	..	..	..	..	17	28
94	N	2	17	55	15	..	..	..	..	..	..	..	..	..	..	18	05
94	E	2	17	55	26	..	..	..	..	..	..	..	..	..	..	18	12
95	N	2	19	00	40	..	..	..	..	..	..	..	..	..	..	19	09
95	E	2	19	03	40	..	..	..	..	..	..	..	..	..	..	19	22
96	N	3	4	01	46	..	..	..	..	..	..	..	..	..	..	4	15
96	E	3	4	01	38	..	..	..	..	..	..	..	..	..	..	4	19
97	N	6	1	39	50	..	..	..	..	..	..	..	..	..	..	2	02
97	E	6	1	41	00	..	..	..	..	..	..	..	..	..	..	1	58
98	N	16	17	40	12	..	..	..	17	41	30	17	43	22	17	50	18
98	E	16	17	40	00	..	..	..	17	41	28	17	42	32	17	53	18

Register of earthquakes recorded at Vieques—Continued.

No.	Component	Date	First P. T.	Second P. T.	Large waves	Maximum	End of principal portion	End	Maximum amp.
		1906.	<i>h m s</i>	<i>h m s</i>	<i>h m s</i>	<i>h m s</i>	<i>h m</i>	<i>h m</i>	<i>mm</i>
99	N	Feb. 19	2 25 00	.. .. .	.. .. .	.. .. .	.. ..	3 42	0.1
99	E	19	2 22 52	.. .. .	.. .. .	.. .. .	.. ..	4 23	0.2
100	N	28	6 23 55	.. .. .	.. .. .	6 29 20	.. ..	6 42	0.1
100	E	28	6 23 58	.. .. .	.. .. .	6 30 09	.. ..	6 43	0.3
101	N	28	13 31 30	.. .. .	.. .. .	.. .. .	.. ..	13 43	...
101	E	28	13 25 06	.. .. .	.. .. .	.. .. .	.. ..	13 48	0.1
102	N	Mar. 3	8 46 10	8 49 16	8 51 00	8 51 18	8 57	9 56	2.9
102	E	3	8 46 04	8 49 20	8 50 24	8 51 22	8 57	10 02	4.3
103	N	29	21 50 08	21 54 00	.. .. .	.. .. .	.. ..	22 21	0.1
103	E	29	21 50 09	21 54 00	.. .. .	.. .. .	.. ..	22 28	0.2
104	N	Apr. 10	21 30 28	21 37 10	21 44 09	21 50 09	21 56	22 41	0.8
104	E	10	21 30 20	21 37 00	21 42 33	21 46 23	21 51	22 40	1.6
105	N	18	13 21 45	13 29 25	13 42 13	13 48 47	14 01	16 12	24.2
105	E	18	13 21 54	13 29 20	13 42 42	13 50 42	14 05	16 31	30.5
106	N	28	.. .. .	.. .. .	7 54 ..	.. .. .	.. ..	8 37	...
106	E	28	.. .. .	.. .. .	7 55 ..	.. .. .	.. ..	8 20	...
107	N	May 5	0 29 36	.. .. .	0 33 55	0 38 04	.. ..	1 04	0.2
107	E	5	0 28 54	.. .. .	0 33 40	0 37 23	.. ..	1 05	0.6
108	N	June 1	4 54 30	.. .. .	5 19 ..	.. .. .	.. ..	6 49	0.3
108	E	1	4 54 45	.. .. .	5 20 ..	.. .. .	.. ..	6 41	0.2
109	N	20	2 31 37	2 36 50	2 39 38	2 41 14	2 46	3 05	0.5
109	E	20	2 31 26	2 35 25	2 38 32	2 41 02	2 46	3 07	0.6
110	N	22	3 22 10	.. .. .	.. .. .	.. .. .	.. ..	3 34	0.2
110	E	22	3 21 38	.. .. .	.. .. .	.. .. .	.. ..	3 32	0.2
111	N	22	6 56 15	.. .. .	.. .. .	.. .. .	.. ..	7 32	0.2
111	E	22	6 57 20	.. .. .	.. .. .	.. .. .	.. ..	7 29	0.3
112	N	22	7 43 30	.. .. .	.. .. .	.. .. .	.. ..	8 10	0.1
112	E	22	7 45 24	.. .. .	.. .. .	.. .. .	.. ..	8 08	0.1
113	N	26	12 23 31	.. .. .	.. .. .	.. .. .	.. ..	12 49	0.2
113	E	26	12 23 48	.. .. .	.. .. .	.. .. .	.. ..	12 48	0.2
114	N	July 13	18 52 00	.. .. .	.. .. .	.. .. .	.. ..	19 33	0.5
114	E	13	18 49 04	.. .. .	.. .. .	.. .. .	.. ..	19 38	0.2
115	N	16	21 19 46	21 23 36	.. .. .	21 30 48	.. ..	21 44	0.2
115	E	16	21 19 35	21 23 50	.. .. .	21 32 08	.. ..	21 45	0.2
116	N	20	13 29 44	.. .. .	.. .. .	13 32 20	.. ..	13 55	0.4
116	E	20	13 31 09	.. .. .	.. .. .	13 33 54	.. ..	.. ..	0.1
117	N	Aug. 17	0 27 35	0 34 50	0 40 27	.. .. .	.. ..	.. ..	0.3
117	E	17	.. .. .	0 34 50	0 39 54	.. .. .	.. ..	.. ..	0.1
118	N	17	0 49 55	.. .. .	0 55 45	1 18 35	1 34	3 50	51.8
118	E	17	0 50 23	.. .. .	0 55 38	1 12 38	1 32	3 48	6.5
119	N	19	9 38 02	.. .. .	.. .. .	10 04 25	.. ..	10 34	0.3
119	E	19	9 39 43	.. .. .	.. .. .	10 00 24	.. ..	10 18	0.3
120	N	24	2 02 19	.. .. .	.. .. .	2 06 11	.. ..	2 32	0.2
120	E	24	2 02 15	.. .. .	.. .. .	2 06 54	.. ..	2 28	0.1
121	N	25	14 15 09	.. .. .	.. .. .	14 49 00	.. ..	15 14	0.2
121	E	25	14 14 29	.. .. .	.. .. .	14 43 15	.. ..	15 12	0.5
122	N	26	6 21 55	6 31 45	.. .. .	7 26 45	.. ..	8 09	0.1
122	E	26	6 20 13	6 31 50	.. .. .	7 27 15	.. ..	8 01	0.1
123	N	30	2 45 54	2 51 42	3 00 14	3 09 10	3 15	3 54	0.7
123	E	30	2 45 39	2 51 36	2 59 29	3 00 44	3 11	3 51	0.6
124	N	Sept. 7	.. .. .	.. .. .	18 48 58	20 05 59	.. ..	20 41	0.2
124	E	7	.. .. .	.. .. .	18 52 00	20 07 45	.. ..	20 41	0.2
125	N	13	.. .. .	.. .. .	9 56 33	10 07 44	.. ..	10 16	...
125	E	13	.. .. .	.. .. .	10 02 01	10 07 35	.. ..	10 11	0.1
126	N	14	0 12 05	.. .. .	0 12 20	.. .. .	.. ..	0 18	0.1
126	E	14	0 12 05	.. .. .	0 12 17	.. .. .	.. ..	0 18	0.1
127	N	14	.. .. .	.. .. .	13 15 45	.. .. .	.. ..	14 28	0.1
127	E	14	.. .. .	.. .. .	13 26 09	.. .. .	.. ..	14 26	0.1
128	N	14	16 24 23	.. .. .	17 05 31	17 21 39	17 48	18 46	1.4
128	E	14	16 24 34	.. .. .	16 52 33	17 23 28	17 51	18 42	1.7
129	N	27	14 41 51	.. .. .	14 42 04	14 42 08	14 43	14 53	8.0
129	E	27	14 41 47	.. .. .	14 42 04	14 42 07	14 43	14 56	5.6
130	N	28	15 29 54	.. .. .	15 34 01	15 35 08	15 40	16 40	3.4
130	E	28	15 29 52	.. .. .	15 33 39	15 35 25	15 40	16 31	5.7
131	N	Oct. 2	2 12 20	.. .. .	2 45 07	3 12 48	.. ..	4 12	0.2
131	E	2	2 12 20	.. .. .	2 38 43	3 05 02	.. ..	4 14	0.3
132	N	24	.. .. .	.. .. .	15 36 08	15 42 08	.. ..	16 15	0.1
132	E	24	.. .. .	.. .. .	15 33 07	15 43 40	.. ..	16 13	0.1
133	N	29	1 51 21	.. .. .	1 55 15	1 55 26	1 59	2 40	0.5
133	E	29	1 51 25	.. .. .	1 55 21	1 56 19	2 00	2 43	0.3

Register of earthquakes recorded at Vieques—Continued.

No.	Component	Date	First P. T.	Second P. T.	Large waves	Maximum	End of principal portion	End	Maximum amp.
		1906.	<i>h m s</i>	<i>h m s</i>	<i>h m s</i>	<i>h m s</i>	<i>h m</i>	<i>h m</i>	<i>mm</i>
134	N	Nov. 5	6 36 56	.. .. .	.. .. .	6 37 51	.. ..	6 53	0.6
134	E	5	6 37 08	.. .. .	.. .. .	6 37 32	.. ..	6 51	1.8
135	N	19	7 38 32	.. .. .	8 27 ..	8 37 ..	.. ..	9 35	0.7
135	E	19	7 39 34	.. .. .	8 28 ..	8 37 ..	.. ..	9 28	0.7
136	N	28	9 10 32	.. .. .	9 24 34	.. .. .	.. ..	9 46	0.1
136	E	28	9 15 52	.. .. .	9 19 16	9 20 02	.. ..	9 59	0.8
137	N	Dec. 3	.. .. .	.. .. .	23 00 48	23 02 04	23 04	23 54	10.0
137	E	3	.. .. .	.. .. .	23 00 50	23 01 52	23 04	23 53	10.0
138	N	19	1 33 43	1 43 21	1 54 53	2 13 28	.. ..	3 41	0.3
139	N	22	18 41 40	.. .. .	19 15 31	19 23 18	19 41	20 16	0.5
139	E	22	18 41 52	.. .. .	19 10 54	19 32 16	19 43	20 06	0.4
140	N	23	17 42 11	.. .. .	17 50 53	18 15 43	.. ..	18 45	0.5
140	E	23	17 32 39	.. .. .	17 46 39	18 08 32	.. ..	18 50	0.8
141	N	26	6 00 24	.. .. .	6 06 07	6 06 15	.. ..	7 02	1.5
141	E	26	6 00 34	.. .. .	6 06 01	6 06 06	.. ..	6 59	1.0

REMARKS.

Steady mass..... 10 to 12 kg.

Magnification..... 10

Period of pendulums:

September, 1903, to June, 1904..... N 26 sec. E 25 sec.

July to December, 1904..... N 27 sec. E 23 sec.

January to June, 1905..... N 24 sec. E 21 sec.

July, 1905, to November, 1906..... N 21 sec. E 22 sec.

November and December, 1906..... N 25 sec. E 25 sec.

No. 2: A local shock, felt by the observer.

No. 9: At 15:00.2 there was a sudden displacement of N toward the south of 15 mm. and of E toward the east of 12 mm.

Nos. 20, 21, 22, 41, 42: Small local earthquakes.

Nos. 54, 55, 58, 60, 61, 66, 67: Probably principal portions of distant earthquakes.

Nos. 77, 79: Local earthquakes.

No. 89: Pointer of E went off the paper and caught at 15:50:16.

No 105: San Francisco earthquake.

No. 117: Aleutian earthquake. Ending obscured by No. 118.

No. 118: Valparaiso earthquake.

No. 126: Slight tremor, felt locally.

No. 129: Local earthquake, distinctly felt for about 10 seconds, accompanied by low rumbling.

Nos. 134, 137: Probably near-by earthquakes.

MAGNETIC STORMS.

Magnetic disturbances of considerable magnitude were recorded at the times specified below. The table gives the local mean time of the beginning of a disturbance, the approximate duration, and the relative magnitude, designated by the figures 1, 2, 3, 4. Where a storm began abruptly, the time of beginning is given to the nearest minute.

On the succeeding pages will be found reproductions of the magnetograms showing the principal magnetic storms. The storms selected for reproduction are indicated in the table by an asterisk after the date. For convenience in comparing with similar reproductions for other observatories, the time scale has been marked for *Greenwich mean time*. An upward motion of the curves corresponds to increasing *H*, increasing *Z*, and increasing west declination.

Principal magnetic disturbances.

Date	L. M. T. of beginning	Duration in hours	Relative magnitude	Date	L. M. T. of beginning	Duration in hours	Relative magnitude
1905.	<i>h m</i>			1905.	<i>h m</i>		
Jan. 3	19 22	55	1	Dec. 3	19	20	2
14	3 34	21	1	11	22 32	40	1
16	19 36	24	1				
21	18	20	1	1906.			
31	5	21	1	Jan. 31	1	26	1
Feb. 2*	21 22	72	3	Feb. 5	17	38	1
22	18	29	1	14	23	24	1
Mar. 1*	20	30	4	18*	18 13	22	2
5	0 07	25	1	24*	4	50	2
6*	22 36	25	2	27	17	32	1
15	18	12	1	Mar. 3	19 00	42	1
31*	20	105	4	6	20	28	1
Apr. 19	20	15	1	24	13	36	1
20	23	15	1	Apr. 8	10	60	1
25	23	15	1	28	9 18	21	1
May 17	17	36	1	May 8	15	10	1
26	20	76	1	13*	16 21	48	2
June 4	21 41	15	2	19	15	34	1
9	8	54	2	26	22	30	1
21	17	56	1	June 1	16	56	2
July 5	17 15	83	2	7	15	16	1
23*	3	45	2	July 11	9	48	1
Aug. 1*	20	65	3	27	0	26	1
6	22	34	2	29	15 36	40	2
26	19	110	2	Aug. 7*	9	66	2
Sept. 3	3	65	2	12	6	30	2
8	2	78	1	30	20	12	1
17*	22 06	80	3	Sept. 3	13	36	1
25	10 23	58	2	21*	22	26	3
Oct. 5	10	24	1	30	20	25	1
13	4	32	1	Oct. 11	22	34	1
27	20 02	20	1	Nov. 21	14	17	1
Nov. 4	10	86	1	Dec. 7	23	28	1
11*	20	56	2	16*	12 22	34	1
14*	13	106	4	21*	17	33	2

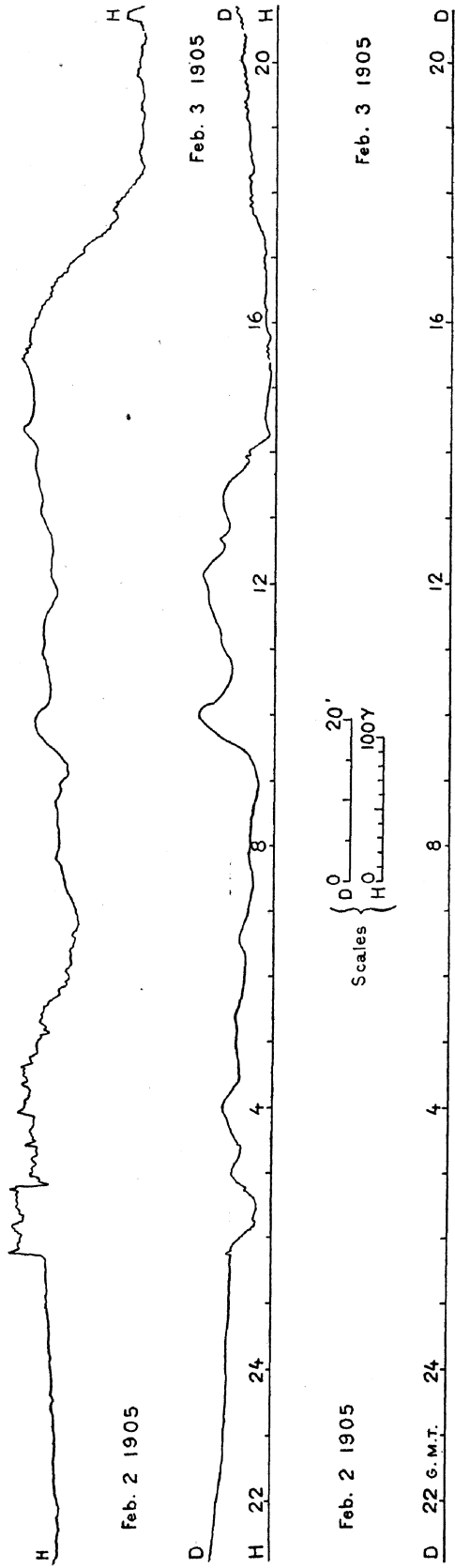


FIG. 1.

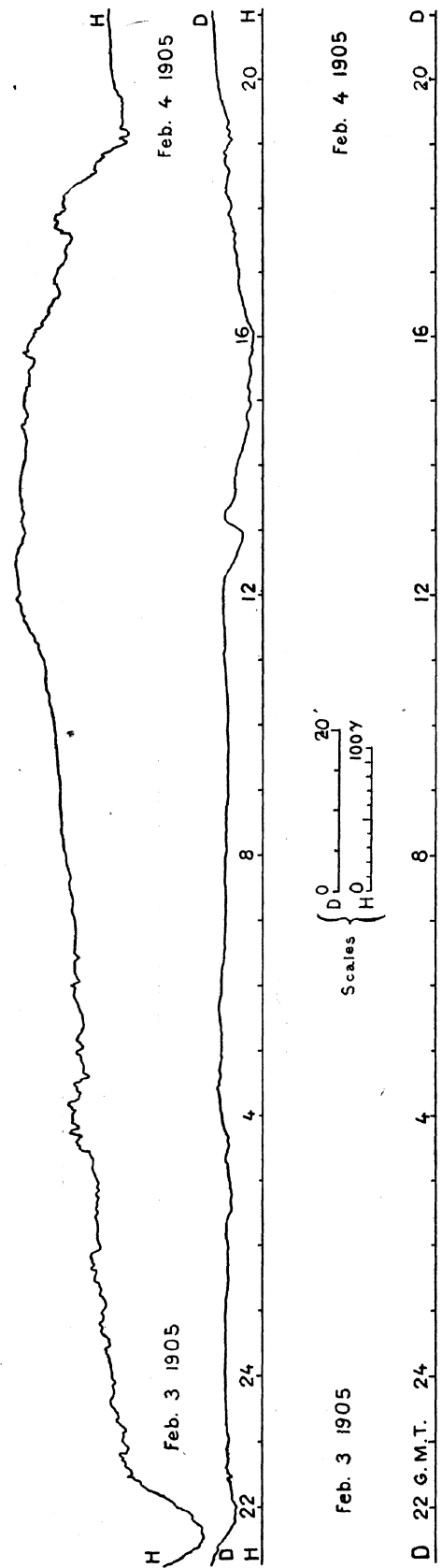


FIG. 2.

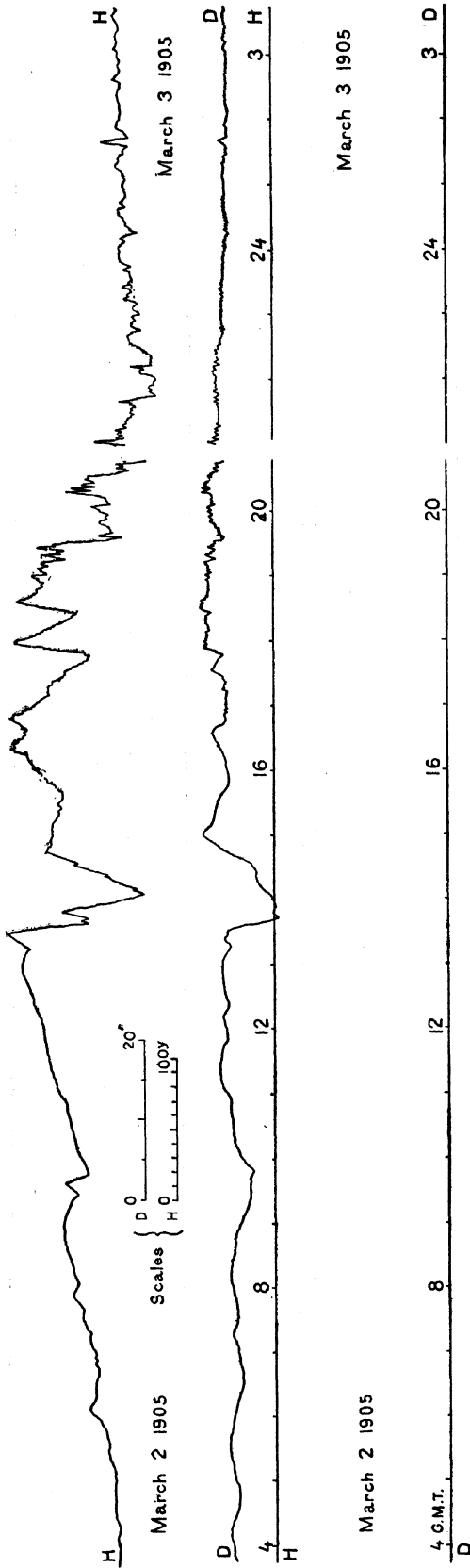


FIG. 3.

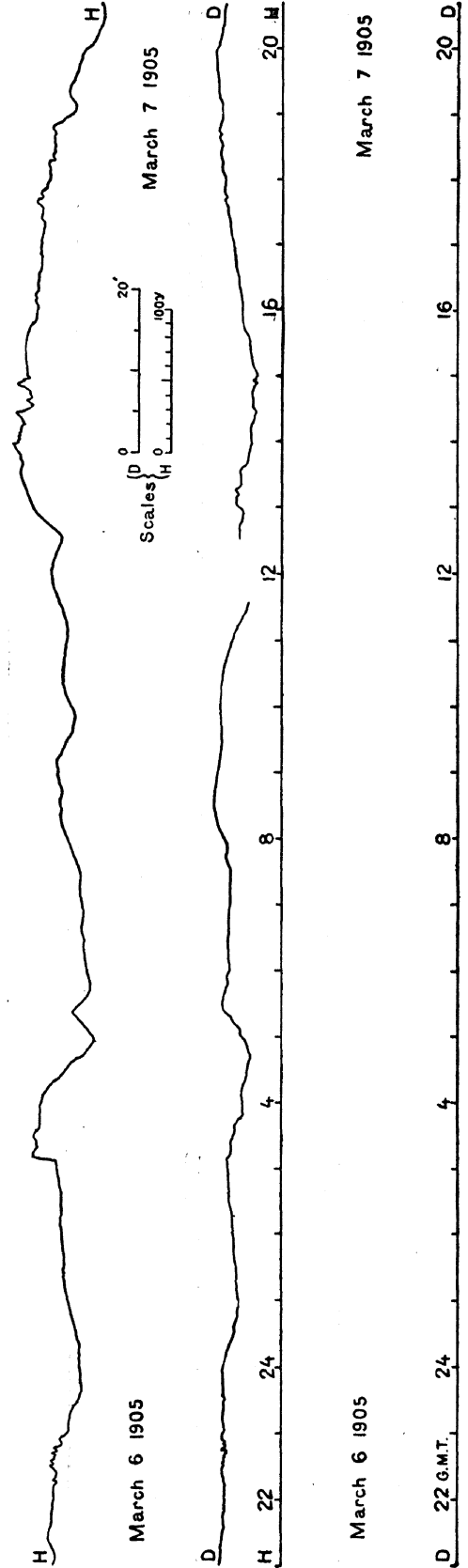


FIG. 4.

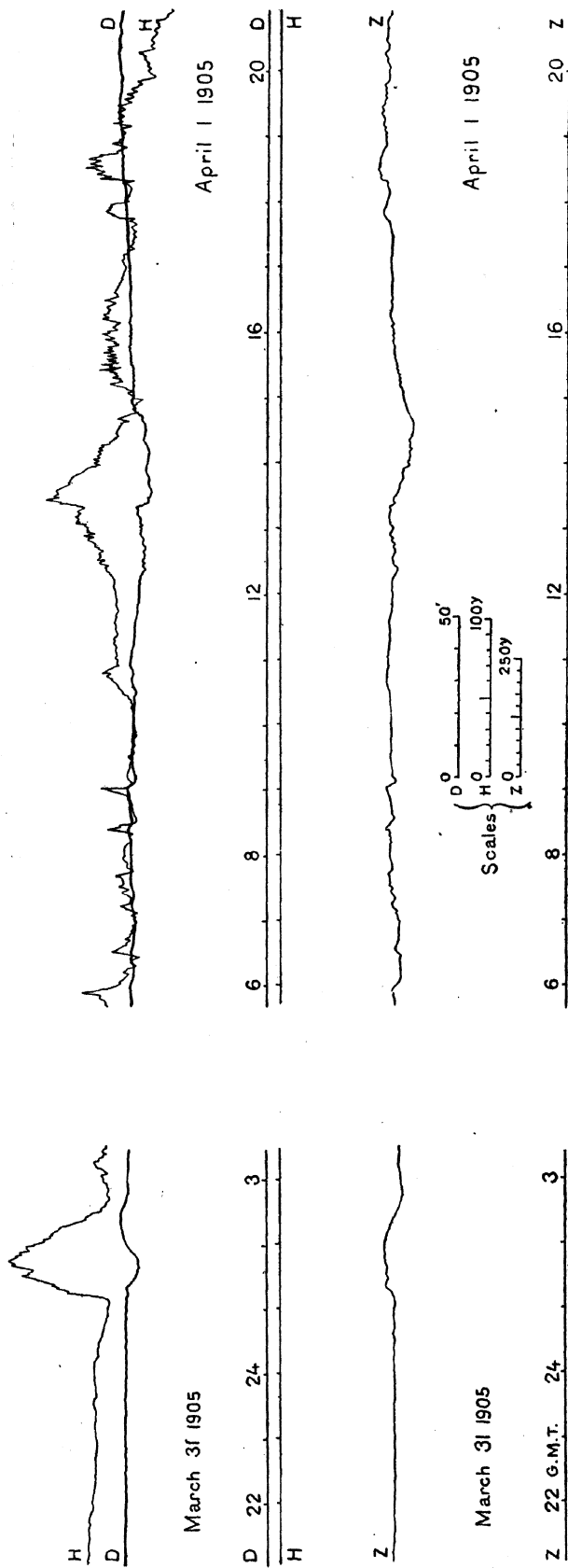


FIG. 5.

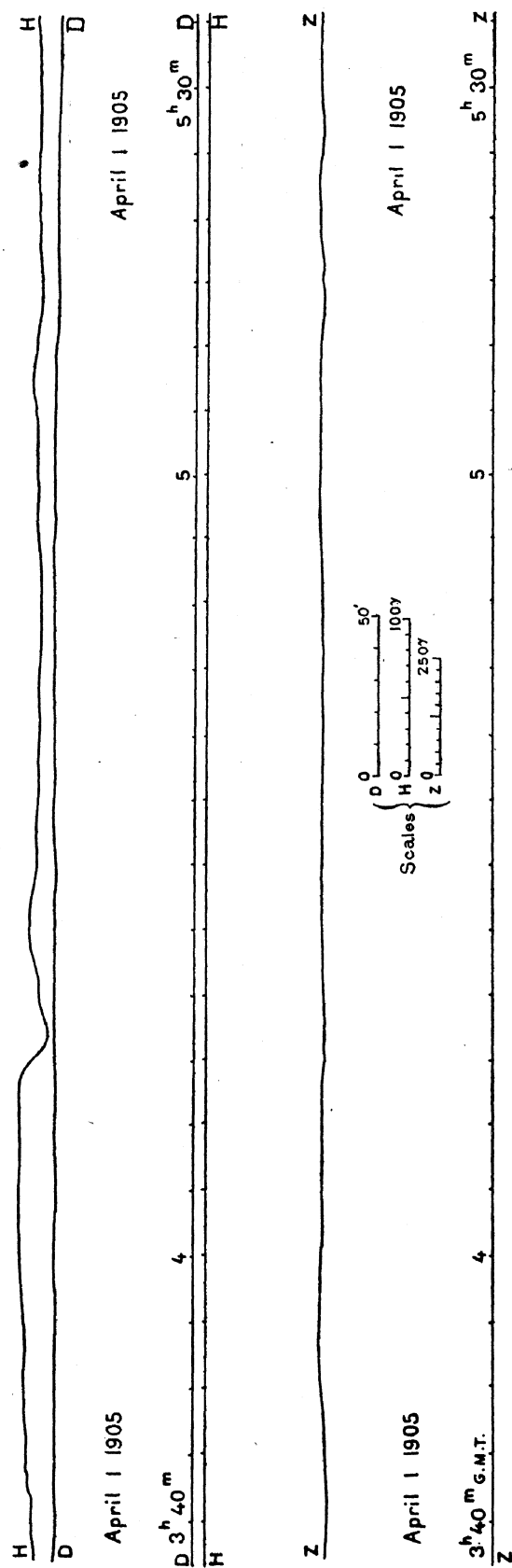


FIG. 6.

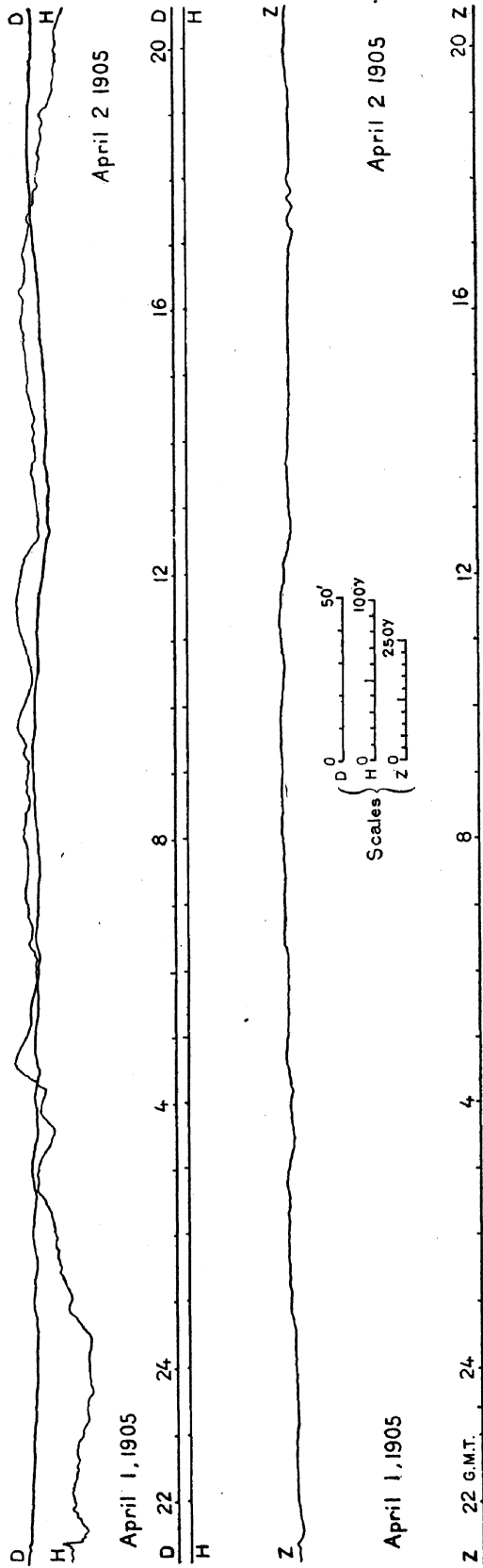


FIG. 7.

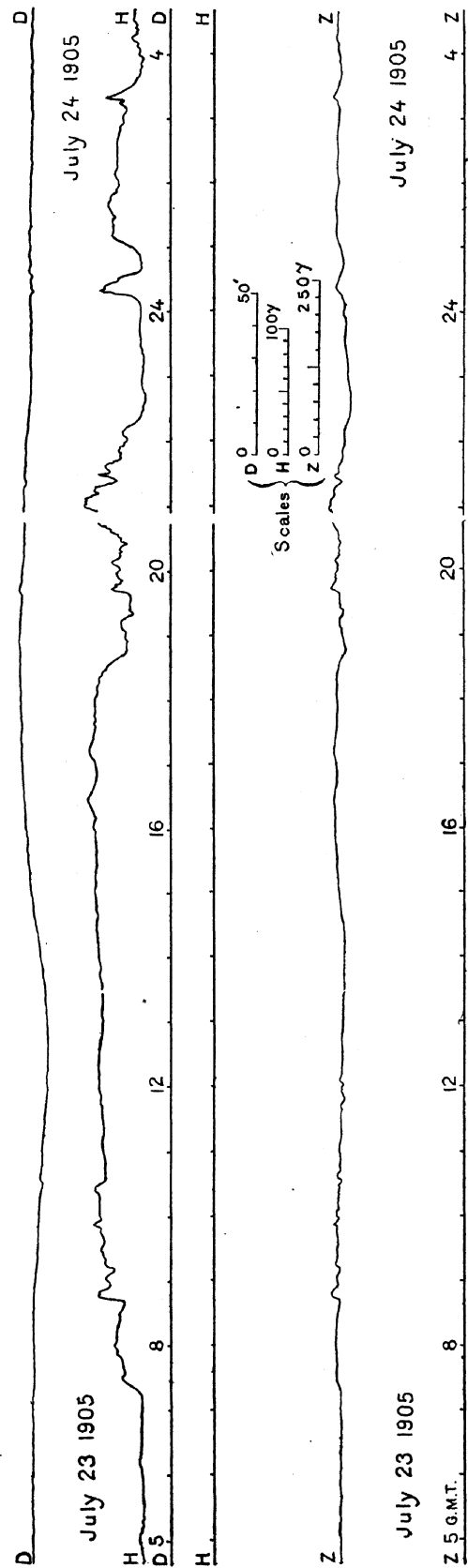


FIG. 8.

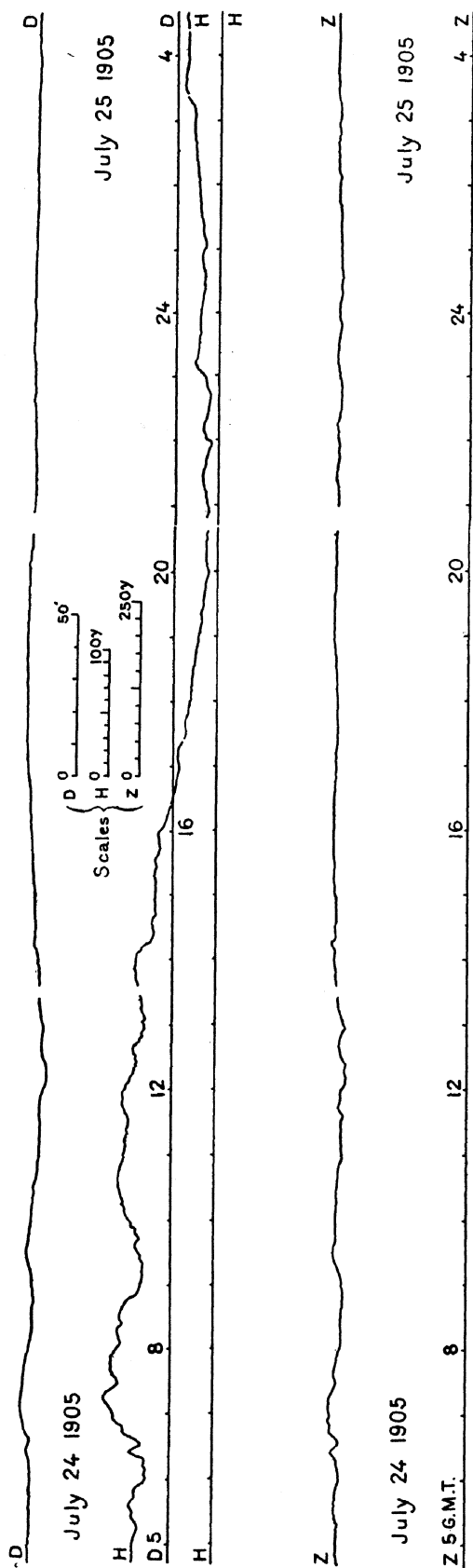


FIG. 9.

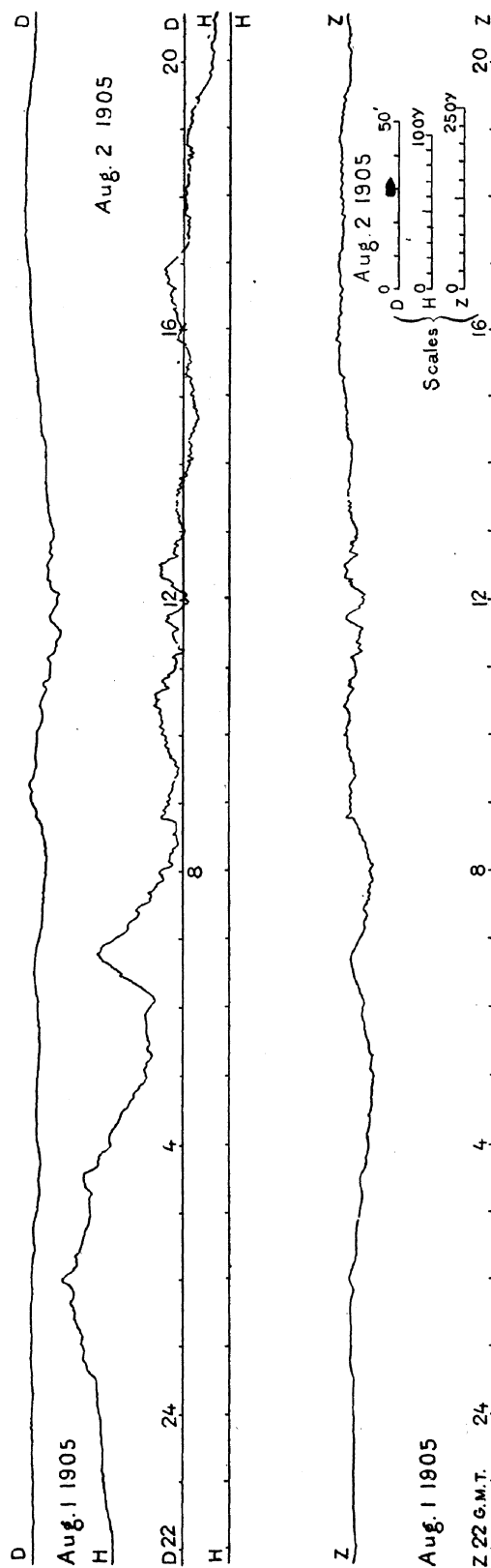


FIG. 10.

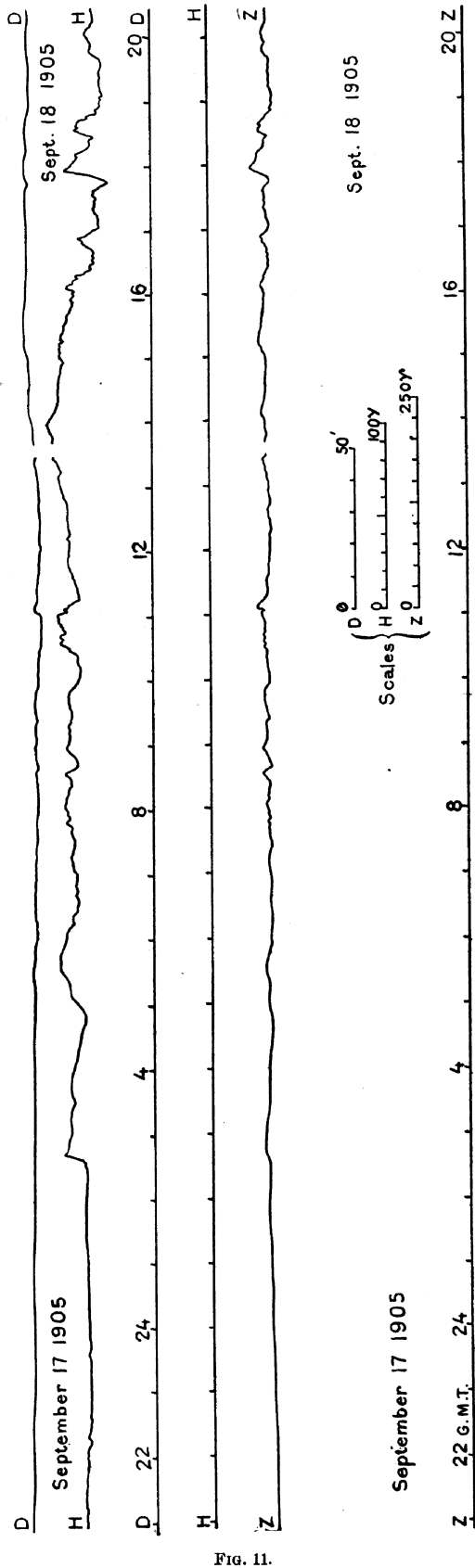


FIG. 11.

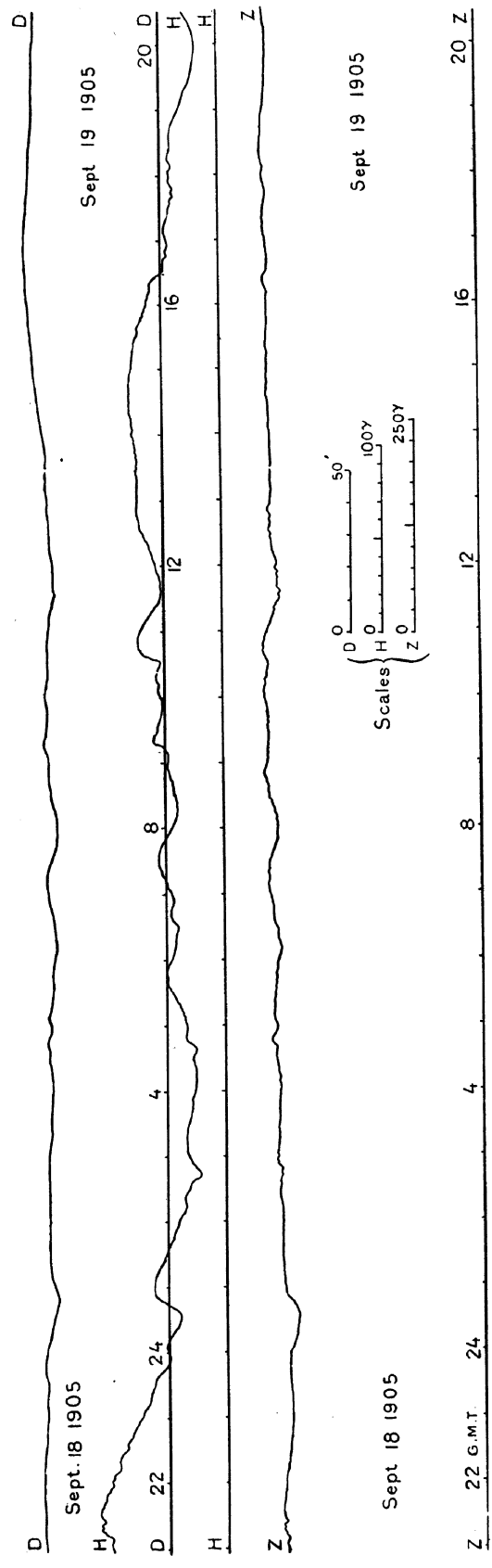


FIG. 12.

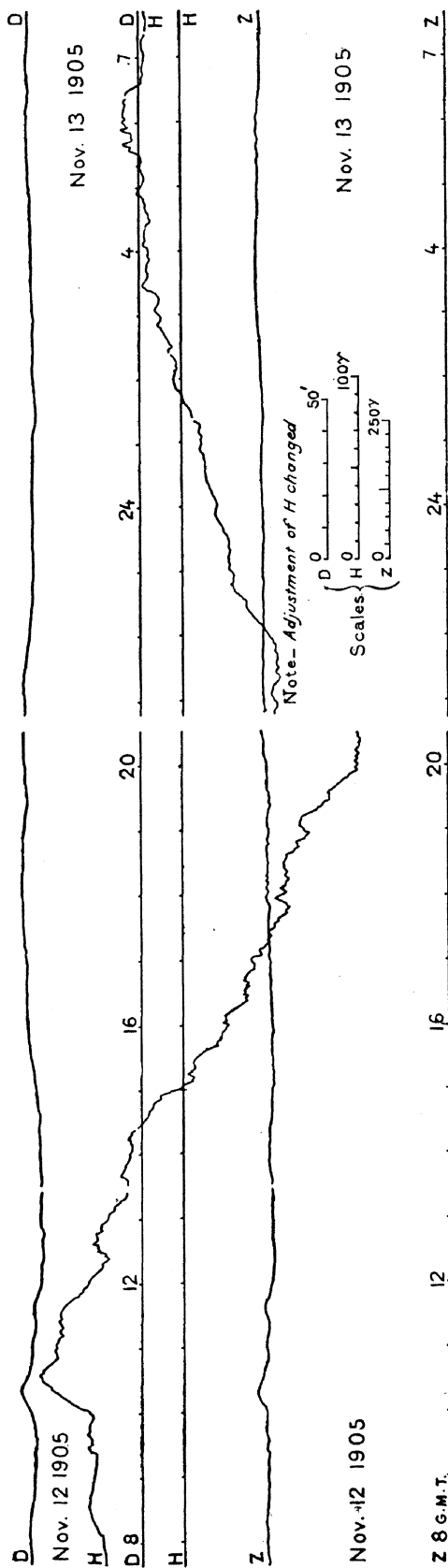


FIG. 13.

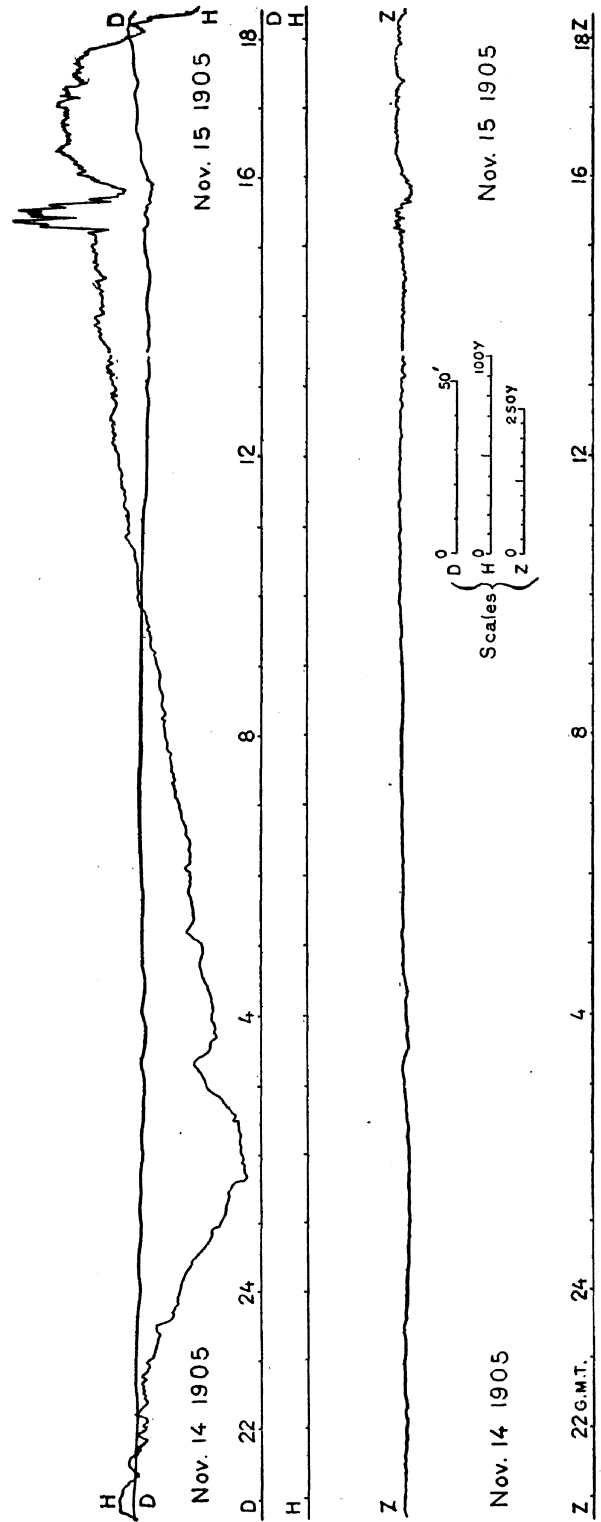


FIG. 14.

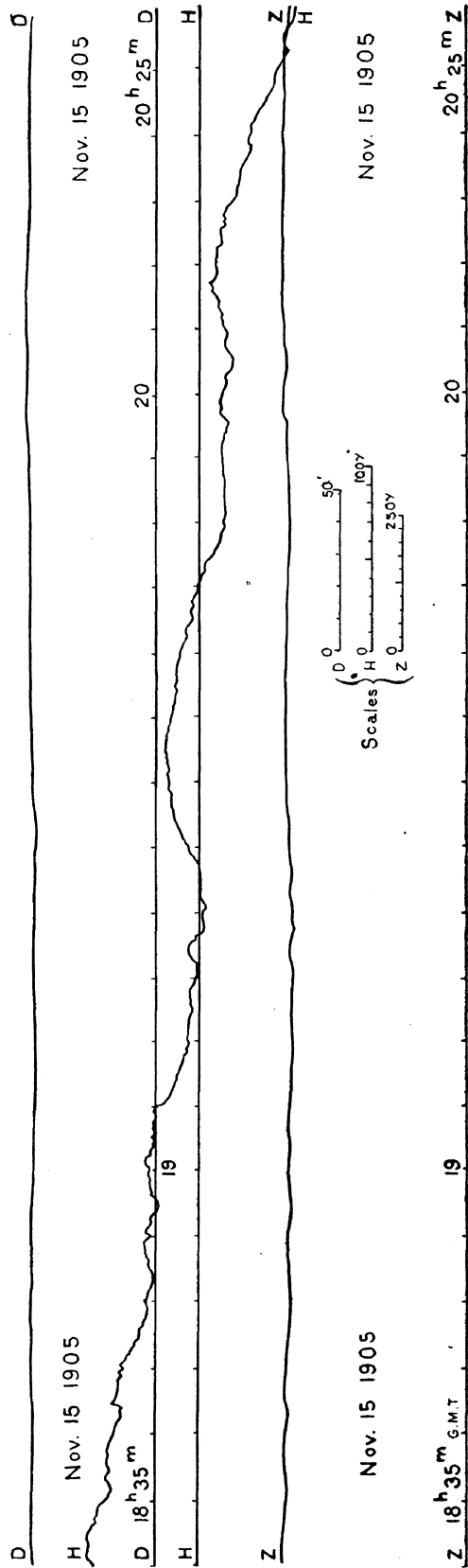


FIG. 15.

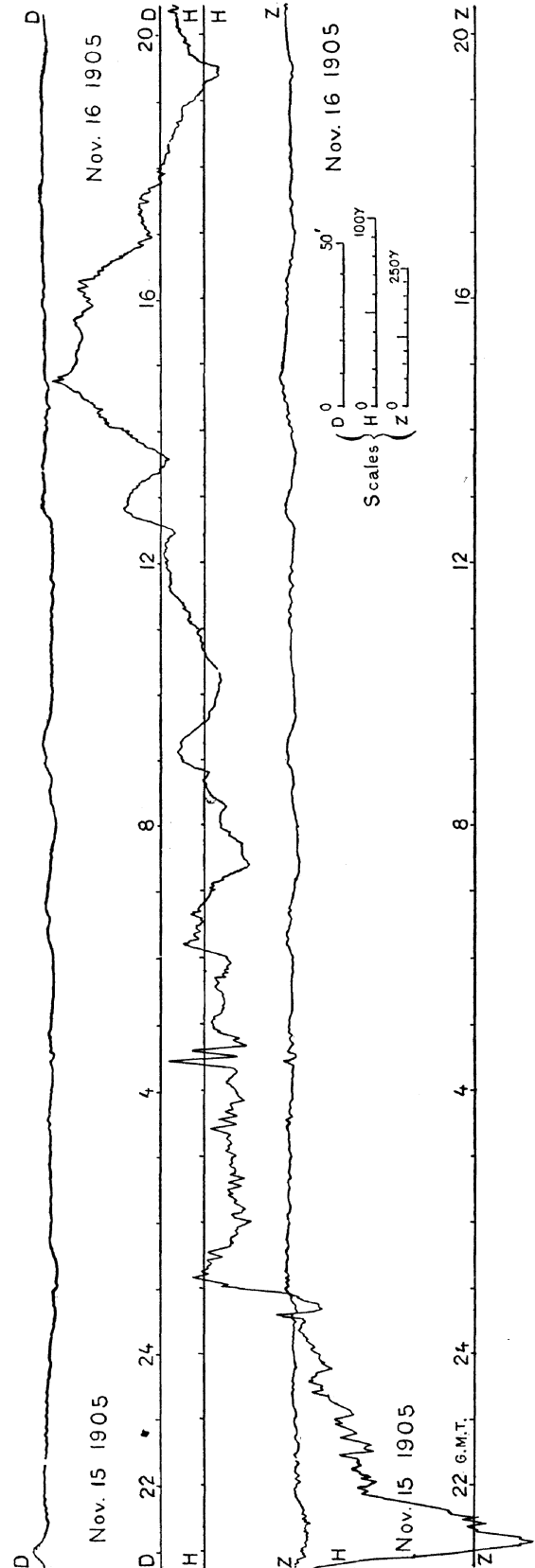


FIG. 16.

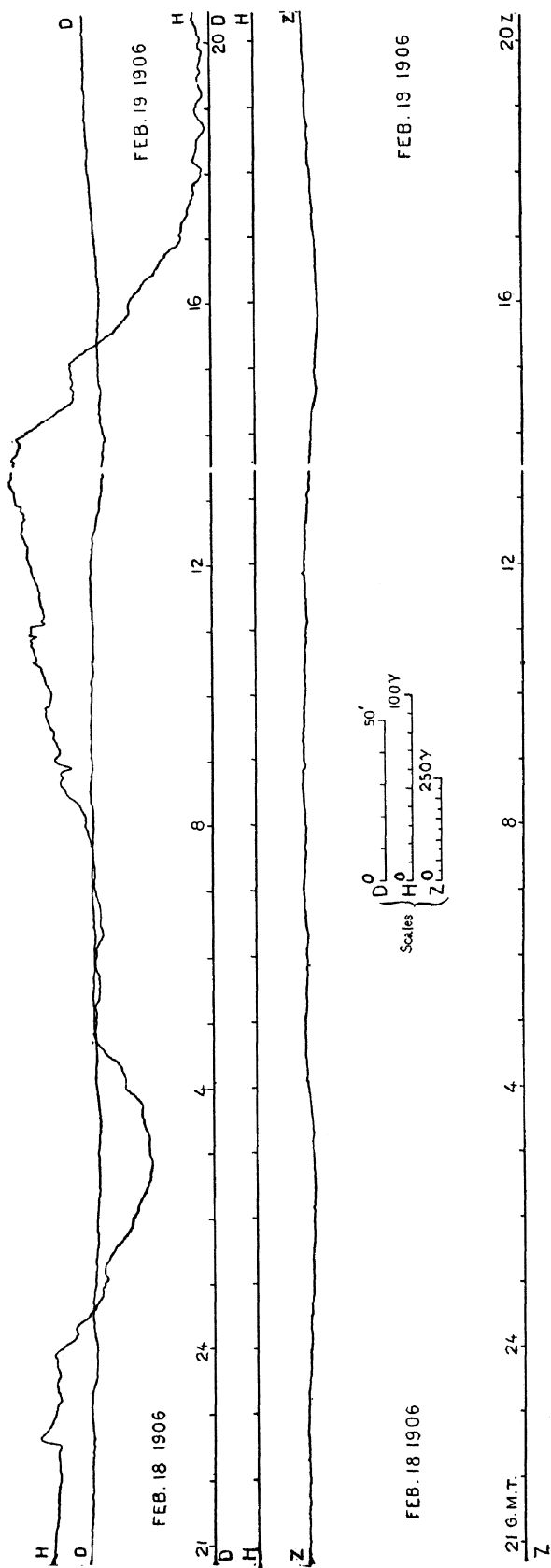


FIG. 17.

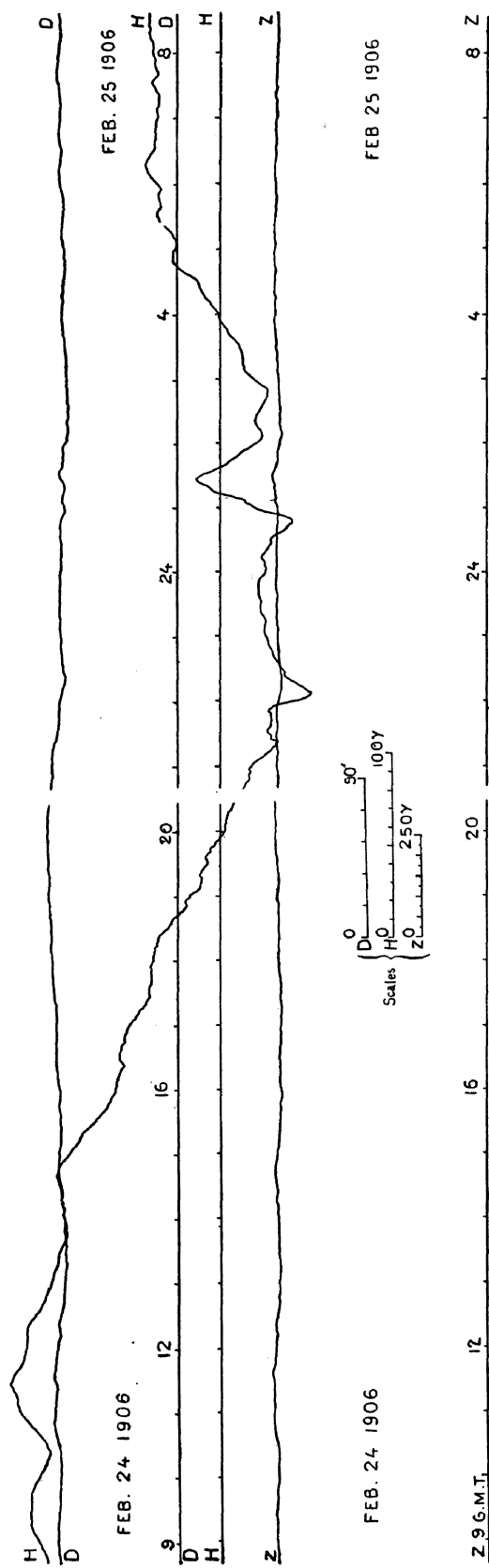


FIG. 18.

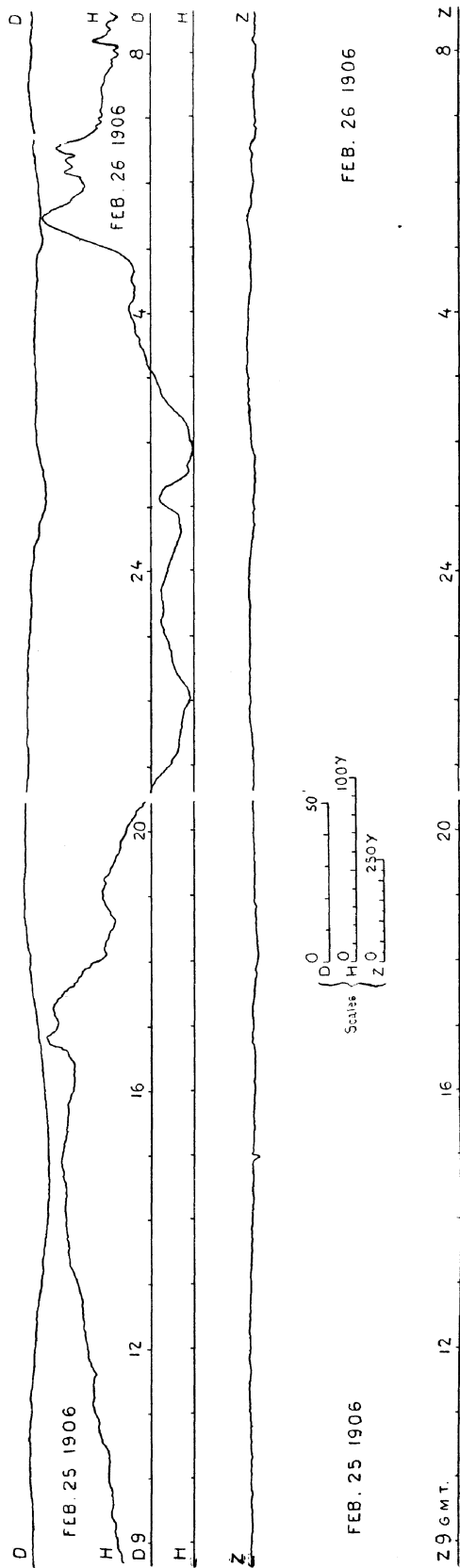


FIG. 19.

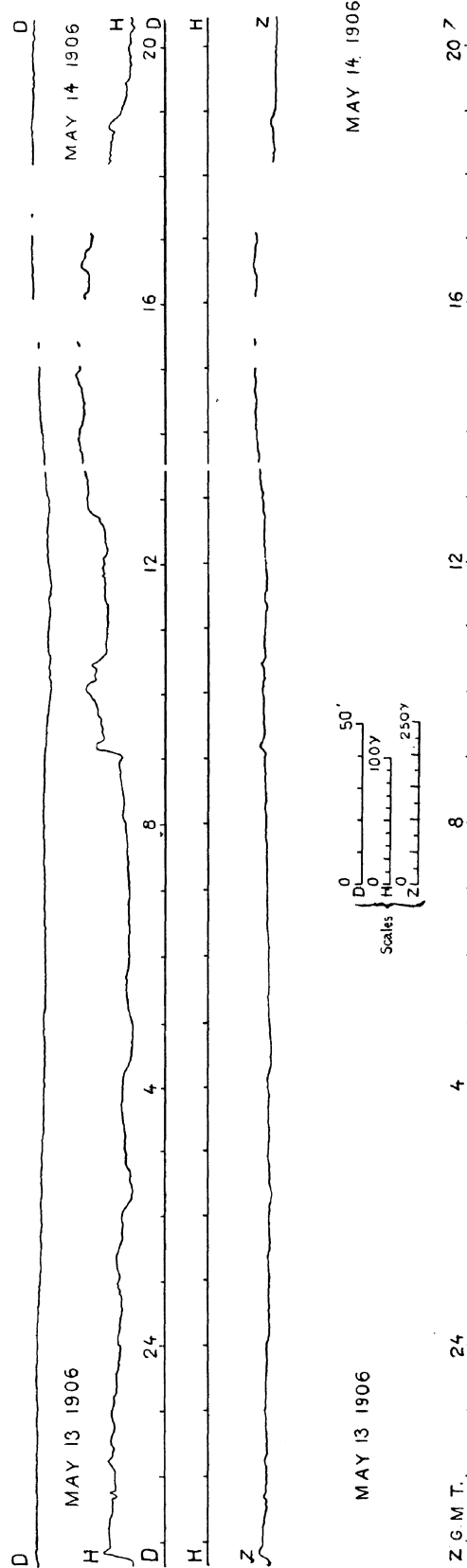


FIG. 20.

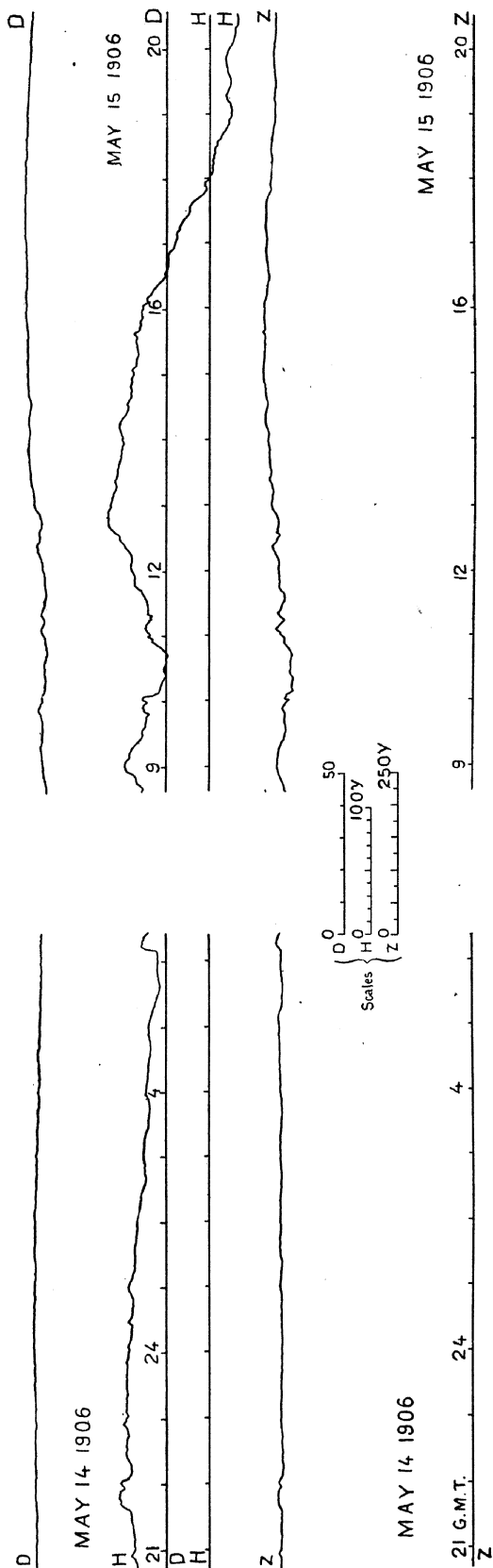


FIG. 21.

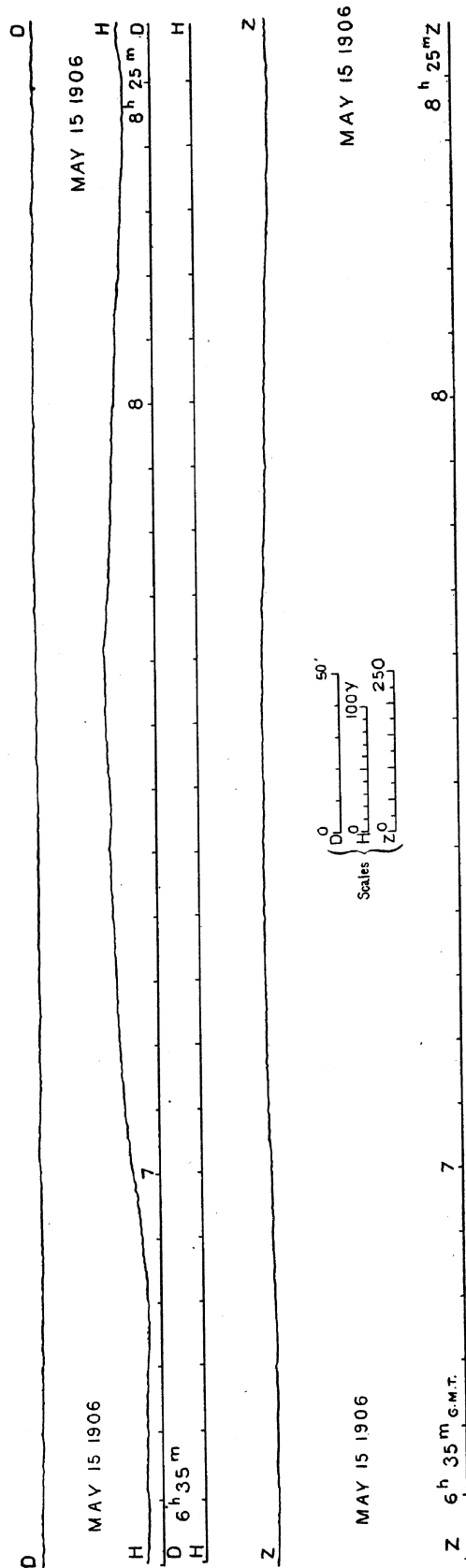


FIG. 22.

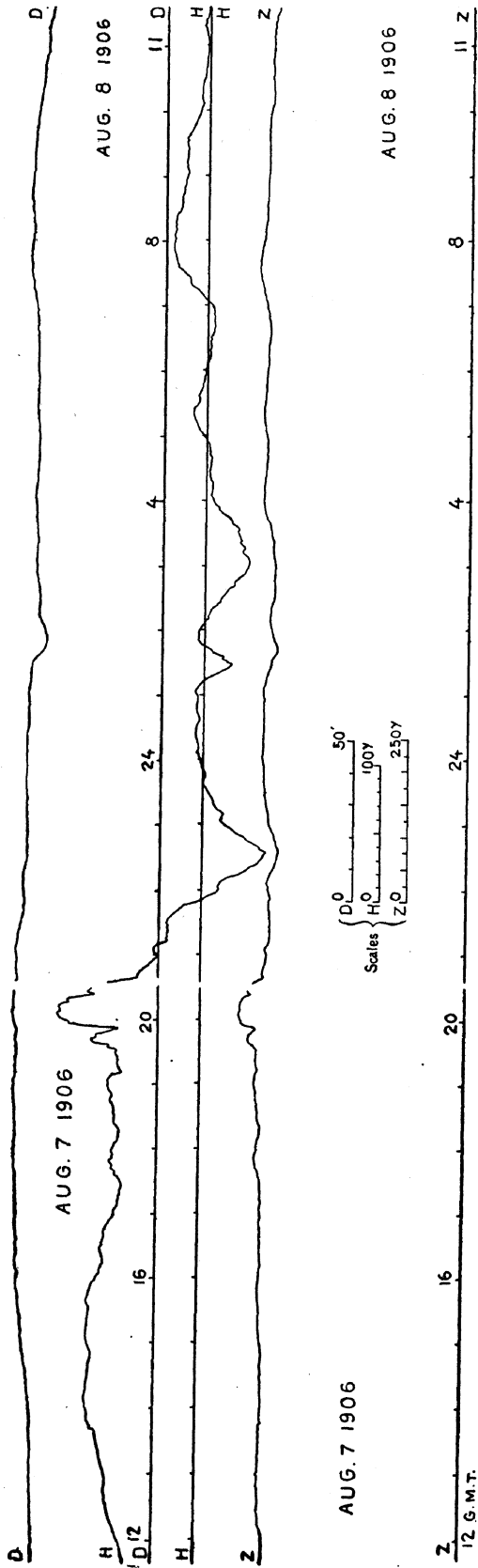


FIG. 23.

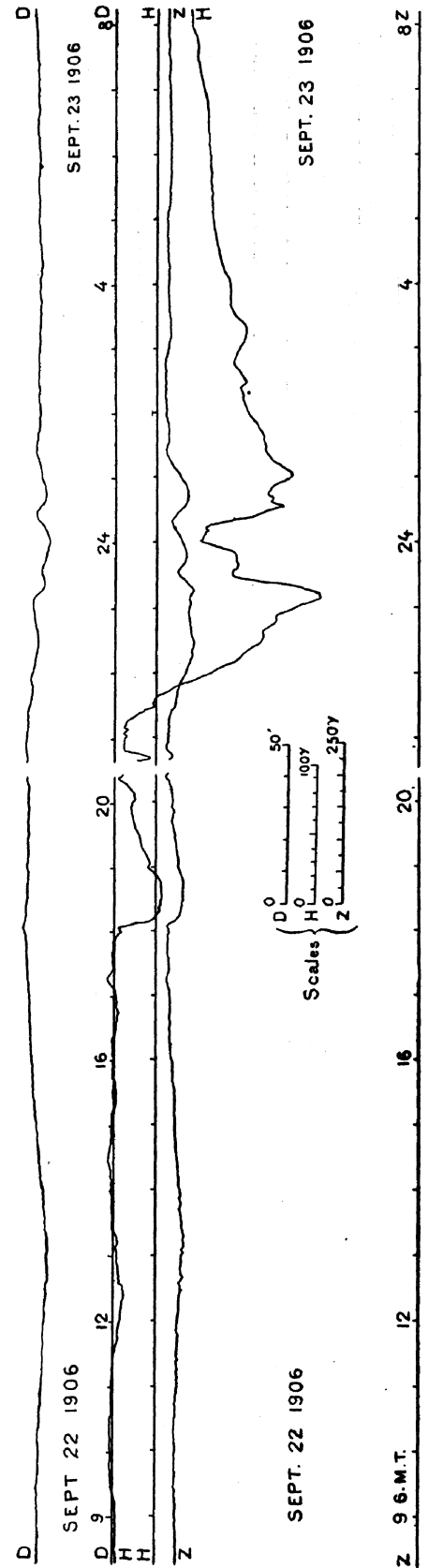


FIG. 24.

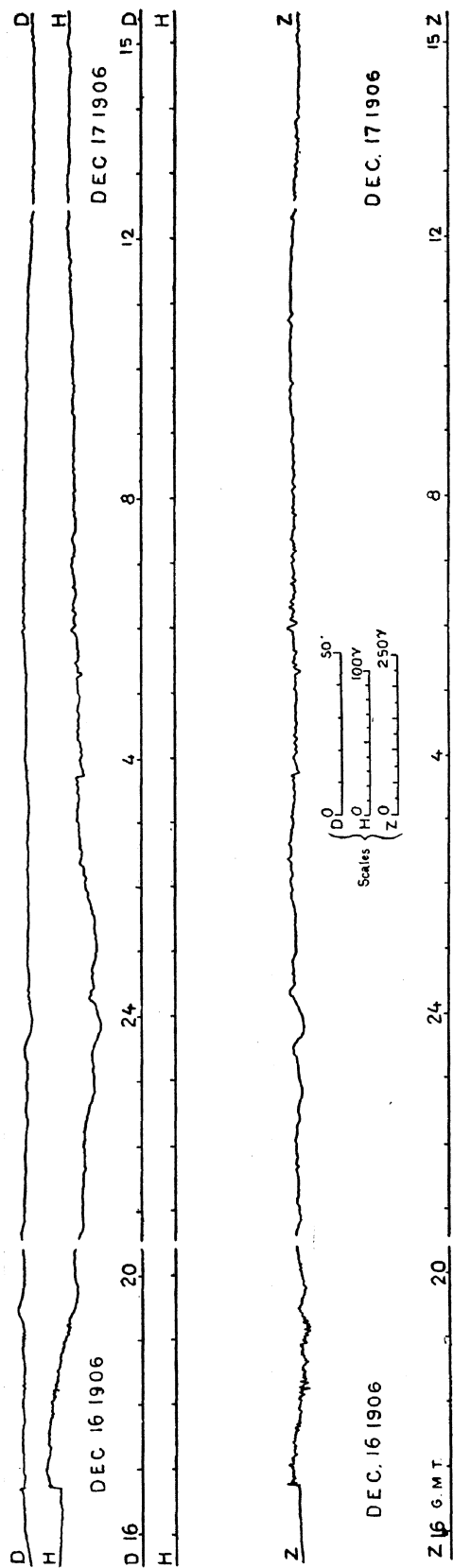


FIG. 25.

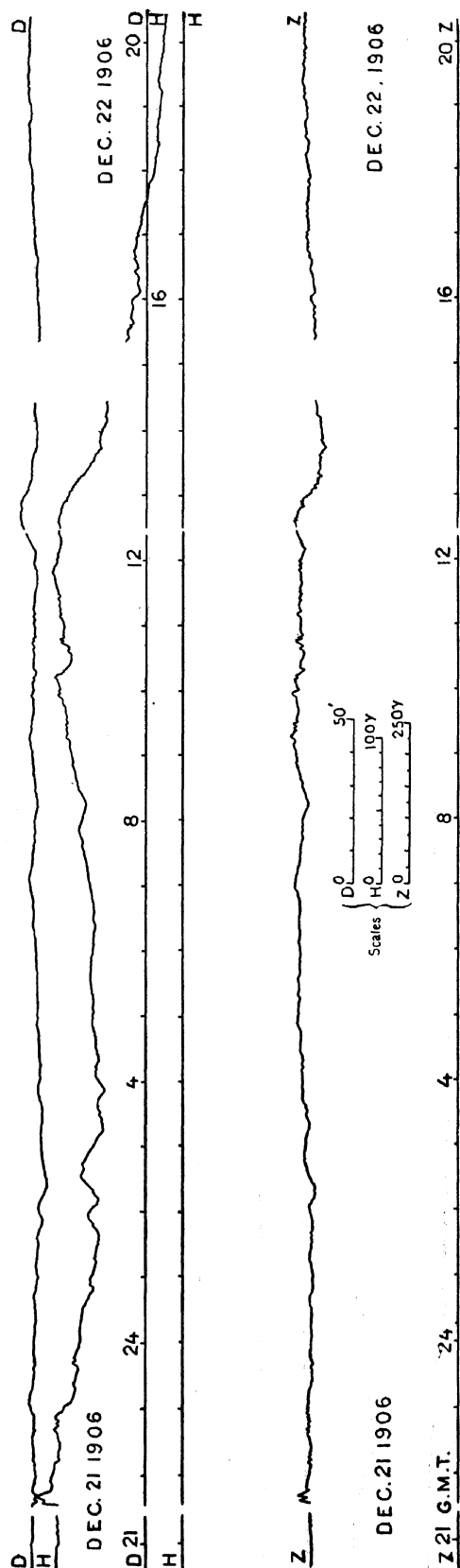
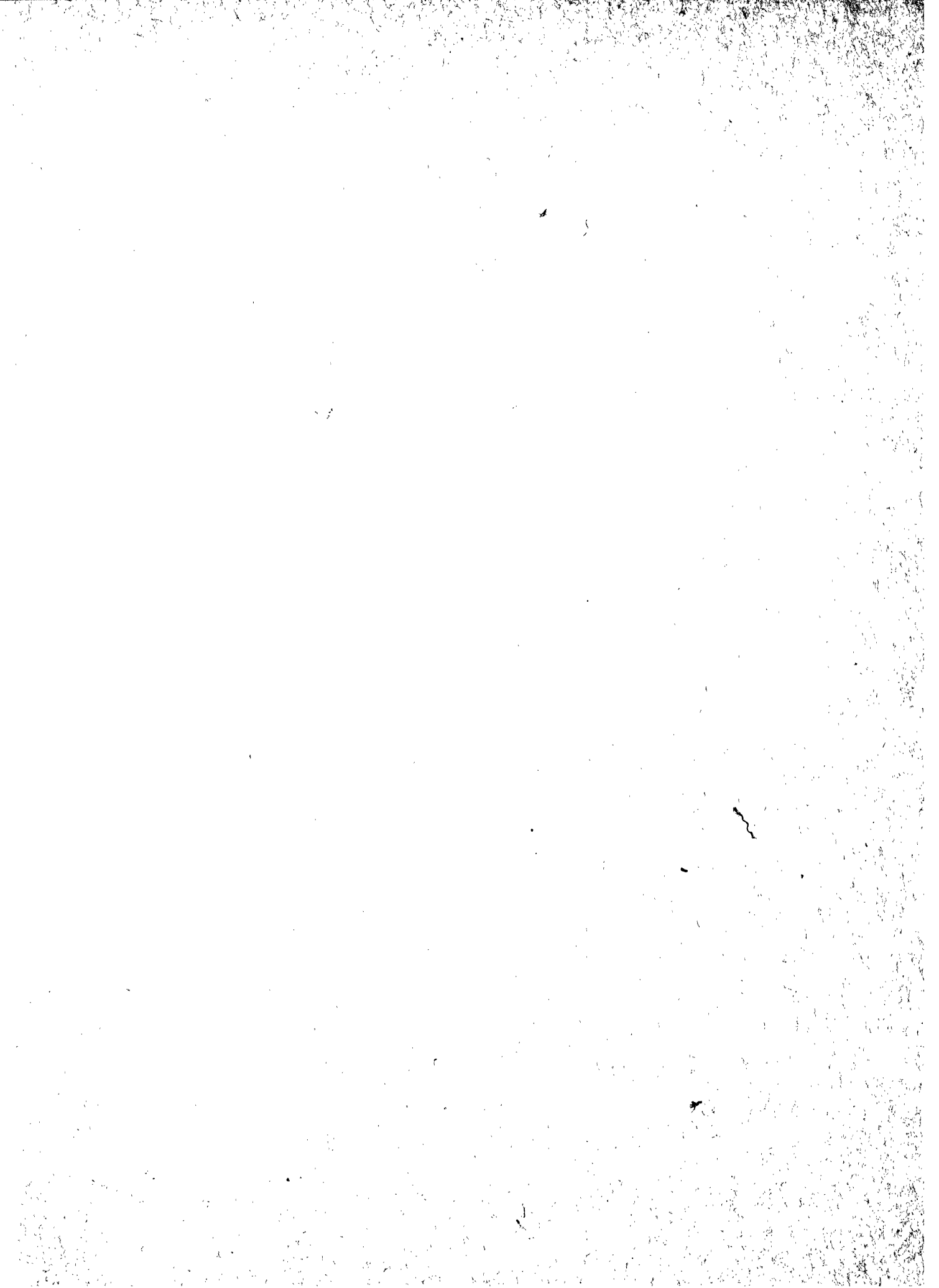


FIG. 26.



BOOK CARD

AUTHOR *Howard, H.*

TITLE *Observations et observations
at Liqueur, Port Rico 1915-1*

SIGNATURE

ISS'D

RET'D

QC
830
.S19

